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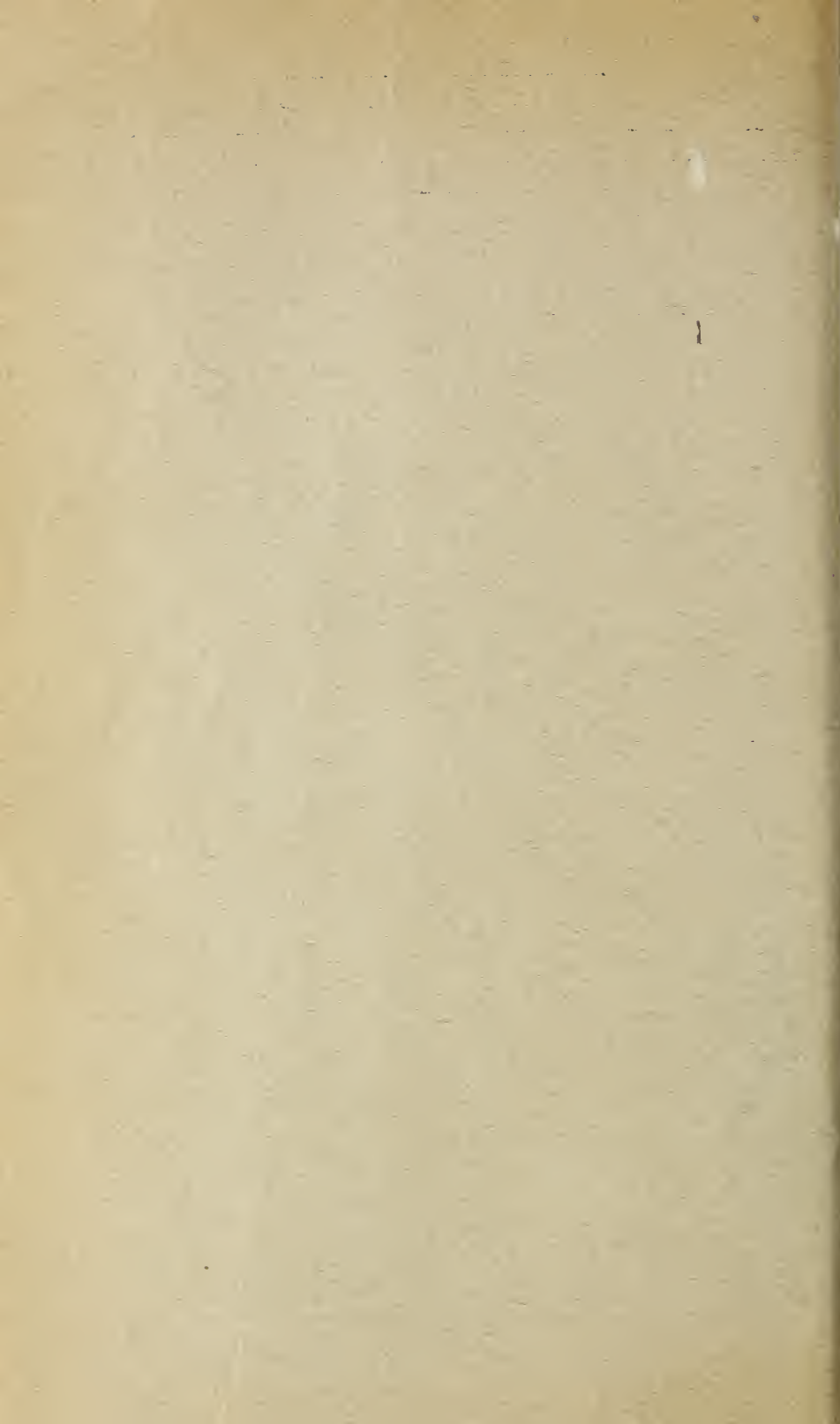
**UNITED STATES
DEPARTMENT OF AGRICULTURE**

**LIST OF TECHNICAL WORKERS
IN THE UNITED STATES DEPARTMENT
OF AGRICULTURE**

1924-1925



MISCELLANEOUS CIRCULAR No. 45



UNITED STATES DEPARTMENT OF AGRICULTURE

MISCELLANEOUS CIRCULAR No. 45

WASHINGTON, D. C.

MARCH, 1925

LIST OF TECHNICAL WORKERS IN
THE DEPARTMENT OF
AGRICULTURE

1924-1925



WASHINGTON
GOVERNMENT PRINTING OFFICE
1925

KEY TO ABBREVIATIONS

<i>Acct.</i> , Accountant, Accounts.	<i>Insp.</i> , Inspection, Inspector.
<i>Admin.</i> , Administration, Administrative, Administrator.	<i>Instr.</i> , Instruction.
<i>Agr.</i> , Agricultural, Agriculturist.	<i>Invest.</i> , Investigations, Investigator.
<i>Agron.</i> , Agronomist.	<i>Irrig.</i> , Irrigation.
<i>Agt.</i> , Agent.	<i>Isl.</i> , Island, Islands.
<i>An.</i> , Animal.	<i>Jr.</i> , Junior.
<i>Apicult.</i> , Apicultural, Apiculturist.	<i>Lab.</i> , Laboratory, Laboratorian.
<i>Arch.</i> , Architect.	<i>Libr.</i> , Librarian.
<i>Art.</i> , Artist.	<i>Mach.</i> , Machinery.
<i>Assoc.</i> , Associate, Association.	<i>Manf.</i> , Manufacturing.
<i>Assocs.</i> , Associations.	<i>Mech.</i> , Mechanic, Mechanical.
<i>Asst.</i> , Assistant.	<i>Met.</i> , Meteorology, Meteorologist.
<i>Bact.</i> , Bacteriology, Bacteriological, Bacteriologist.	<i>Mgr.</i> , Manager.
<i>Biochem.</i> , Biochemical, Biochemist.	<i>Mgt.</i> , Management.
<i>Biol.</i> , Biological, Biologist.	<i>Microan.</i> , Microanalyst.
<i>Biophys.</i> , Biophysical, Biophysicist.	<i>Micros.</i> , Microscopist.
<i>Bldg.</i> , Building.	<i>Misc.</i> , Miscellaneous.
<i>Bot.</i> , Botany, Botanical, Botanist.	<i>Mycol.</i> , Mycologist.
<i>Chem.</i> , Chemistry, Chemist, Chemical.	<i>Nat.</i> , Naturalist.
<i>Coll.</i> , College.	<i>Natl.</i> , National.
<i>Collab.</i> , Collaborator.	<i>Nematol.</i> , Nematologist.
<i>Comm.</i> , Commission.	<i>Nutr.</i> , Nutrition.
<i>Comr.</i> , Commissioner.	<i>Org.</i> , Organic.
<i>Const.</i> , Construction.	<i>Parasitol.</i> , Parasitology, Parasitologist.
<i>Consult.</i> , Consulting.	<i>Path.</i> , Pathology, Pathological, Pathologist.
<i>Coop.</i> , Cooperation, Cooperative.	<i>Pharm.</i> , Pharmaceutical.
<i>Cytol.</i> , Cytological, Cytologist.	<i>Phys.</i> , Physical, Physicist.
<i>Dem.</i> , Demonstration.	<i>Physiol.</i> , Physiological, Physiologist.
<i>Dendrol.</i> , Dendrologist.	<i>Pomol.</i> , Pomologist.
<i>Dep.</i> , Deputy.	<i>Pred.</i> , Predatory.
<i>Dept.</i> , Department.	<i>Prod.</i> , Production, Products.
<i>Dir.</i> , Director.	<i>Pubs.</i> , Publications.
<i>Dist.</i> , District.	<i>Quar.</i> , Quarantine.
<i>Div.</i> , Division.	<i>Reserv.</i> , Reservation, Reservations.
<i>Ecol.</i> , Ecologist.	<i>Sci.</i> , Scientific, Scientist.
<i>Econ.</i> , Economic, Economics, Economist.	<i>Secy.</i> , Secretary.
<i>Ed.</i> , Editor, Editorial.	<i>Silvicult.</i> , Silviculturist.
<i>Engin.</i> , Engineer, Engineering.	<i>Sociol.</i> , Sociology.
<i>Ent.</i> , Entomology, Entomological, Entomologist	<i>Spec.</i> , Specialist.
<i>Erad.</i> , Eradication.	<i>Sr.</i> , Senior.
<i>Exam.</i> , Examiner.	<i>Sta.</i> , Station.
<i>Exec.</i> , Executive.	<i>Standard.</i> , Standardization.
<i>Expt.</i> , Experiment.	<i>Statist.</i> , Statistical, Statistician.
<i>Ext.</i> , Extension.	<i>Substa.</i> , Substation.
<i>Fert.</i> , Fertilizers.	<i>Supt.</i> , Superintendent.
<i>For.</i> , Forestry, Forester.	<i>Supvr.</i> , Supervisor.
<i>Gen.</i> , General.	<i>Tech.</i> , Technology, Technologist.
<i>Geol.</i> , Geologist.	<i>Trop.</i> , Tropical.
<i>Grad.</i> , Graduate.	<i>Univ.</i> , University.
<i>Hdqrs.</i> , Headquarters.	<i>Util.</i> , Utilization.
<i>Hort.</i> , Horticulture, Horticulturist.	<i>Vet.</i> , Veterinary.
<i>Husb.</i> , Husbandry, Husbandman.	<i>Vit.</i> , Viticulturist.
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	<i>Zool.</i> , Zoology, Zoologist

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E. F. Cary, D. V. S., *Asst. Vet., Insp. in charge, Nashville, Tenn.*
F. H. Collins, V. M. D., *Asst. Vet., Insp. in charge, Chattanooga, Tenn.*
E. A. Crossman, M. D. V., *Assoc. Vet., Boston, Mass.*
R. W. Culbert, M. D. V., *Asst. Vet., Insp. in charge, Spokane, Wash.*
E. S. Dickey, Ph. C., D. V. S., *Assoc. Vet. Insp. in charge, Sioux Falls, S. Dak.*
James Fleming, M. D., V. S., *Vet., Insp. in charge, Kansas City, Kans.*
H. H. George, D. V. S., *Assoc. Vet., Insp. in charge, Cleveland, Ohio.*
D. R. Gillies, M. D., V. S., *Assoc. Vet., Insp. in charge, South St. Joseph, Mo.*
J. S. Grove, V. S., *Assoc. Vet., Insp. in charge, Oklahoma City, Okla.*
H. A. Hedrick, D. V. S., *Assoc. Vet., Insp. in charge, Baltimore, Md.*
A. L. Hirlleman, D. V. M., *Assoc. Vet., Insp. in charge, Atlanta, Ga.*
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge, Denver, Colo.*
G. T. Irons, D. V. S., *Assoc. Vet., Insp. in charge, Los Angeles, Calif.*

Public Stockyards Inspection—Continued.

R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge, Birmingham, Ala.*
Frank Jelen, D. V. S., *Assoc. Vet., Insp. in charge, Cincinnati, Ohio.*
J. S. Jenison, D. V. M., *Vet., Insp. in charge, National Stock Yards, Ill.*
J. B. Johnson, D. V. M., *Assoc. Vet., Insp. in charge, Louisville, Ky.*
T. J. Kean, D. V. M., *Assoc. Vet., Insp. in charge, Jersey City, N. J.*
C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge, Memphis, Tenn.*
F. D. Ketchum, D. C. M., *Assoc. Vet., Insp. in charge, Wichita, Kans.*
Henry Marshall, D. V. M., *Asst. Vet., Insp. in charge, Richmond, Va.*
W. G. Middleton, D. V. M., *Asst. Vet., Insp. in charge, Trenton, N. J.*
C. J. Millen, D. V. M., *Assoc. Vet., Insp. in charge, Pittsburgh, Pa.*
W. N. Neil, V. S., *Vet., Insp. in charge, Chicago, Ill.*
C. F. Palmer, D. V. S., *Asst. Vet., Insp. in charge, Houston, Tex.*
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge, Detroit, Mich.*
T. A. Shipley, D. V. S., *Assoc. Vet., Insp. in charge, Sioux City, Iowa.*
A. F. Staub, D. V. M., *Assoc. Vet., Insp. in charge, New Orleans, La.*
B. J. Stockler, D. V. M., *Asst. Vet., Insp. in charge, Wheeling, W. Va.*
Wm. Thompson, M. D. C., *Asst. Vet., Insp. in charge, San Antonio, Tex.*
G. E. Totten, D. C. M., *Vet., Insp. in charge, South St. Paul, Minn.*
W. O. Trone, D. V. S., *Assoc. Vet., Insp. in charge, Dayton, Ohio.*
H. K. Walter, V. M. D., *Assoc. Vet., Insp. in charge, Washington, D. C.*
H. S. Weber, M. D. V., *Asst. Vet., Insp. in charge, Lancaster, Pa.*
B. P. Wende, V. S., *Vet., Insp. in charge, Buffalo, N. Y.*

International Inspection and Quarantine:

- M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge*, Portland, Oreg.
 E. H. Baumann, M. D. V., *Asst. Vet., Insp. in charge*, Albany, N. Y.
 C. O. Benson, D. V. S., *Asst. Vet., Insp. in charge*, Ogdensburg, N. Y.
 T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge*, El Paso, Tex.
 C. H. Canfield, D. V. M., *Asst. Vet., Insp. in charge*, Port Huron, Mich.
 Juan Varas Catala, V. S., *Vet. Insp., Insp. in charge*, San Juan, P. R.
 J. E. Cloud, D. V. S., *Asst. Vet., Insp. in charge*, San Diego, Calif.
 H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge*, Bismarck, N. Dak.
 R. W. Culbert, M. D. V., *Asst. Vet., Insp. in charge*, Spokane, Wash.
 E. T. Davidson, D. V. M., *Assoc. Vet., Insp. in charge*, Athenia, N. J.
 S. O. Fladness, D. V. M., *Vet., Insp. in charge*, Mexico City, Mexico.
 H. A. Hedrick, D. V. S., *Assoc. Vet., Insp. in charge*, Baltimore, Md.
 H. H. Hicks, M. D. V., *Assoc. Vet., Insp. in charge*, San Francisco, Calif.
 R. D. Hyde, D. V. M., *Asst. Vet., Insp. in charge*, Calais, Me.
 I. H. Kaufman, D. V. M., *Asst. Vet., Insp. in charge*, Houlton, Me.
 Jens Madsen, M. D., D. V. M., *Assoc. Vet., Insp. in charge*, Seattle, Wash.
 J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge*, Helena, Mont.
 T. M. Owens, D. V. M., *Asst. Vet., Insp. in charge*, Norfolk, Va.
 J. C. Pace, D. V. S., *Jr. Vet., Insp. in charge*, Calexico, Calif.
 C. F. Palmer, D. V. S., *Asst. Vet., Insp. in charge*, Houston, Tex.
 A. E. Rishel, D. V. S., *Assoc. Vet., Insp. in charge*, New York, N. Y.
 J. F. Ryder, D. V. S., *Assoc. Vet., Insp. in charge*, Boston, Mass.
 E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge*, Detroit, Mich.
 D. G. Shumway, V. M. D., *Asst. Vet., Insp. in charge*, Rouses Point, N. Y.
 J. E. Spindler, V. M. D., *Asst. Vet., Insp. in charge*, Newport, Vt.
 A. F. Staub, D. V. M., *Assoc. Vet., Insp. in charge*, New Orleans, La.
 Wm. Thompson, M. D. C., *Asst. Vet., Insp. in charge*, San Antonio, Tex.
 R. W. Tuck, D. V. S., *Vet., Insp. in charge*, London, England.
 B. P. Wende, V. S., *Vet., Insp. in charge*, Buffalo, N. Y.

Scabies and Dourine Eradication:

- L. J. Allen, D. V. S., *Vet., Insp. in charge*, Fort Worth, Tex.
 C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge*, Baton Rouge, La.
 H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge*, Bismarck, N. Dak.

Scabies and Dourine Eradication—Con.

- J. T. Dallas, B. S., D. V. M., *Asst. Vet., Insp. in charge*, Cheyenne, Wyo.
 J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge*, Olympia, Wash.
 A. H. Francis, D. V. M., *Asst. Vet., Acting Insp. in charge*, Lincoln, Nebr.
 H. Grafke, D. V. S., *Assoc. Vet., Insp. in charge*, Oklahoma City, Okla.
 W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge*, Denver, Colo.
 J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge*, Helena, Mont.
 F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge*, Salt Lake City, Utah.
 F. L. Schneider, B. S., D. V. S., *Vet., Insp. in charge*, Albuquerque, N. Mex.
 R. Snyder, M. D. C., *Assoc. Vet., Insp. in charge*, Sacramento, Calif.
 N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge*, Topeka, Kans.
 J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge*, Pierre, S. Dak.

TUBERCULOSIS ERADICATION DIVISION

- J. A. Kiernan, V. S., *Sr. Vet., Chief*.
 A. E. Wight, M. D. V., *Vet., Asst. Chief*.
 Field Stations (work conducted in cooperation with the States):
 Alabama—R. E. Jackson, D. V. M., *Assoc. Vet.*, Birmingham.
 Arkansas—H. L. Fry, D. V. M., *Asst. Vet.*, Little Rock.
 California—Rudolph Snyder, M. D. C., *Assoc. Vet.*, Sacramento.
 Colorado—W. E. Howe, D. V. S., *Assoc. Vet.*, Denver.
 Connecticut—R. L. Smith, D. V. S., *Assoc. Vet.*, Hartford.
 Florida—J. G. Fish, D. V. S., *Asst. Vet.*, Tallahassee.
 Georgia—A. L. Hirleman, D. V. M., *Assoc. Vet.*, Atlanta.
 Idaho—W. A. Sullivan, D. V. M., *Asst. Vet.*, Boise.
 Illinois—J. J. Lintner, M. D. C., *Vet.*, Chicago.
 Indiana—J. E. Gibson, V. S., *Assoc. Vet.*, Indianapolis.
 Iowa—J. A. Barger, D. V. S., *Vet.*, Des Moines.
 Kansas—N. L. Townsend, V. M. D., *Assoc. Vet.*, Topeka.
 Kentucky—W. F. Biles, D. V. M., *Assoc. Vet.*, Frankfort.
 Louisiana—A. F. Staub, D. V. M., *Assoc. Vet.*, New Orleans.
 Maine—J. B. Reidy, D. V. M., *Asst. Vet.*, Augusta.
 Maryland—T. A. Ladson, D. V. S., *Assoc. Vet.*, Baltimore.
 Massachusetts—E. A. Crossman, D. V. M., *Assoc. Vet.*, Boston.

Field Stations—Continued.

- Michigan—T. S. Rich, D. V. M., *Vet.*, Lansing.
 Minnesota—W. J. Fretz, D. V. S., *Vet.*, St. Paul.
 Mississippi—L. E. Lyons, D. V. S., *Asst. Vet.*, Jackson.
 Missouri—Ralph Graham, D. V. M., *Vet. Insp.*, Jefferson City.
 Montana—J. W. Murdoch, D. V. S., *Assoc. Vet.*, Helena.
 Nebraska—A. H. Francis, M. D. V., *Acting Vet. Insp.*, Lincoln.
 New Jersey—W. G. Middleton, D. V. M., *Asst. Vet.*, Trenton.
 New Mexico—F. L. Schneider, B. S., D. V. S., *Vet.*, Albuquerque.
 New York—H. B. Leonard, D. V. M., *Vet.*, Albany.
 North Carolina—W. C. Dendinger, D. V. M., *Assoc. Vet.*, Raleigh.
 North Dakota—H. H. Cohenour, D. V. M., *Assoc. Vet.*, Bismarck.
 Ohio—A. J. De Fosset, D. V. M., *Assoc. Vet.*, Columbus.
 Oklahoma—H. Grafke, D. V. S., *Assoc. Vet.*, Oklahoma City.
 Oregon—S. B. Foster, D. V. S., *Assoc. Vet.*, Portland.
 Pennsylvania—P. E. Quinn, D. V. M., *Assoc. Vet.*, Harrisburg.
 South Carolina—W. K. Lewis, D. V. S., *Vet. Insp.*, Columbia.
 South Dakota—J. O. Wilson, D. V. M., *Assoc. Vet.*, Pierre.
 Tennessee—J. P. O'Connor, M. D. V., *Acting Asst. Insp.*, Nashville.
 Texas—L. J. Allen, D. V. S., *Vet.*, Fort Worth.
 Utah—F. E. Murray, D. V. M., *Assoc. Vet.*, Salt Lake City.
 Vermont—L. E. Adams, V. M. D., *Asst. Vet.*, Montpelier.
 Virginia—R. E. Brookbank, D. V. S., *Asst. Vet.*, Richmond.
 Washington—J. C. Exline, D. V. M., *Assoc. Vet.*, Olympia.
 West Virginia—Geo. W. Neff, D. V. M., *Vet. Insp.*, Charleston.
 Wisconsin—Jas. S. Healy, M. D. V., *Vet.*, Madison.
 Wyoming—J. T. Dallas, B. Sc. in Agr., D. V. M., *Asst. Vet.*, Cheyenne.
- TICK ERADICATION DIVISION**
 R. A. Ramsay, D. V. S., B. S. A., *Vet.*, *Chief*.
 W. M. MacKellar, V. S., *Vet.*, *Asst. Chief*.
 Field Stations (work conducted in cooperation with the States):
 Alabama—R. E. Jackson, V. S., *Asso. Vet.*, *Insp. in charge*, Birmingham.
 Arkansas—W. A. McDonald, D. V. M., *Assoc. Vet.*, *Insp. in charge*, Little Rock.
 Florida—S. J. Horne, D. V. M., *Assoc. Vet.*, *Insp. in charge*, Jacksonville.

Field Stations—Continued.

- Louisiana—C. J. Becker, D. V. M., *Assoc. Vet.*, *Acting Insp. in charge*, Baton Rouge.
 Mississippi—Wilbur McPherson, D. V. M., *Assoc. Vet.*, *Insp. in charge*, Jackson.
 North Carolina—Hartwell Robbins, D. V. S., *Assoc. Vet.*, *Insp. in charge*, Washington.
 Oklahoma—Harry Grafke, D. V. S., *Assoc. Vet.*, *Insp. in charge*, Oklahoma City.
 South Carolina—W. K. Lewis, M. D. V., *Vet. Insp.*, *Insp. in charge*, Columbia.
 Texas—L. J. Allen, V. S., *Assoc. Vet.*, *Insp. in charge*, Fort Worth.

ANIMAL HUSBANDRY DIVISION

- E. W. Sheets, B. S. A., M. S., *Sr. An. Husb.*, *Chief*.

Beef Cattle:

- W. H. Black, B. S., *Assoc. An. Husb.*, *Acting in charge*.
 A. T. Semple, B. S., *Assoc. An. Husb.*
 E. W. McComas, B. S., *Asst. An. Husb.*
 William Jackson, B. S. A., *Asst. An. Husb.*

Swine:

- E. Z. Russell, *An. Husb.*, *in charge*.
 S. S. Buckley, D. V. S., M. S., *Assoc. An. Husb.*
 O. G. Hankins, B. S., *Assoc. An. Husb.*
 J. H. Zeller, B. S., *Asst. An. Husb.*

Sheep:

- D. A. Spencer, B. S., *An. Husb.*, *in charge*.
 C. G. Potts, B. S., *Assoc. An. Husb.*
 M. J. Brandon, A. B., *Jr. An. Husb.*
 J. I. Hardy, M. S., Ph. D., *Assoc. An. Husb.*

Horses and Mules:

- J. O. Williams, B. S. A., *An. Husb.*, *in charge*.
 S. R. Speelman, B. S. A., *Asst. An. Husb.*

Poultry:

- M. A. Jull, B. S. A., M. Sc., Ph. D., *Poultry Husb.*, *in charge*.
 A. R. Lee, B. S., *Assoc. Poultry Husb.*
 J. P. Quinn, *Chief Sc. Aid*.
 S. Haynes, *Chief Sc. Asst.*

Animal Genetics:

- Sewall Wright, M. S., Sc. D., *An. Husb.*, *in charge*.
 H. C. McPhee, Sc. D., *Assoc. An. Husb.*
 O. S. Eaton, M. S., *Asst. An. Husb.*

Nutrition:

- Paul E. Howe, M. A., Ph. D., *Biol. Chem.*, *in charge*.
 N. R. Ellis, M. S., *Assoc. Biol. Chem.*
 H. G. Barott, E. E., *Assoc. Physicist*.
 W. B. Emerson, M. E., *Asst. Physicist*.
 S. J. Dahl, M. S., *Jr. Chem.*

Meat:

- K. F. Warner, A. B., M. S., *Assoc. An. Husb.*, *Acting in charge*.

Extension:

C. D. Lowe, D. V. M., *Ext. An. Husb.*
(in coop. with Office of Coop. Ext.
Work).

Animal Husbandry Experiment Farm, Belts-
ville, Md. (beef cattle, swine, sheep,
poultry, and horses). B. F. Brandon,
B. S. A., *Assoc. An. Husb.*, in charge.

Field Stations:

Ardmore, S. Dak. (beef cattle and
swine):

F. L. Kelso, B. S. (Bur. Plant Ind.),
in charge.

Big Spring, Tex. Coop. Expts. with Tex.
Expt. Sta. (beef cattle):

F. E. Keating, B. S. (Bur. Plant Ind.),
in charge.

Columbia, Mo. Coop. Expts. with Mo.
Expt. Sta. (swine):

F. F. McKenzie, B. S. A., M. A., *Agt.*
in *An. Husb.*

Dubois, Idaho. Sheep Expt. Sta.:

W. A. Denecke, B. S., *Assoc. An. Husb.*,
in charge.

J. M. Cooper, B. S., *Jr. An. Husb.*

Glendale, Ariz. Poultry Expt. Sta.:

L. J. Pedigo, in charge.

Havre, Mont. Coop. Expts. with Mont.
Expt. Sta. (beef cattle):

Geo. W. Morgan, B. S. (Bur. Plant
Ind.), in charge.

Huntley, Mont. Coop. Expts. with Mont.
Expt. Sta. (swine):

Dan Hansen (Bur. Plant Ind.), in
charge.

Jeannerette, La. Iberia Livestock Expt.
Farm. In coop. with La. Expt. Sta.
(beef cattle, swine, and mules):

J. R. Quesenberry, *Agt. in An. Husb.*,
in charge.

Jonesboro, Ark. Coop. Expts. with Ark.
Expt. Sta., and First Dist. Agr.
School (beef cattle):

A. C. Cook, B. S., *Agt. in An. Husb.*
(Coop.), in charge.

Laramie, Wyo. Coop. Expts. with Wyo.
Expt. Sta. (horses):

E. B. Krantz, B. S. A., M. S., *Asst.*
An. Husb., in charge.

Lewisburg, W. Va. Coop. Expts. with
W. Va. Expt. Sta. (beef cattle):

R. H. Tuckwiller, B. S., *Agt. in An.*
Husb., in charge.

Madison, Wis. Coop. Expts. with Wis.
Expt. Sta.:

W. F. Dove, M. S., *Agt. in An. Husb.*
(beef cattle).

B. L. Warwick, M. S., D. V. M., *Agt.*
in *An. Husb.* (swine).

McNeill, Miss. Coastal Plain Expt. Sta.
In coop. with Miss. Expt. Sta.
(beef cattle, swine, and sheep):

S. W. Greene, B. A., *Asst. An. Husb.*,
in charge.

Field Stations—Continued.

Middlebury, Vt. Morgan Horse Farm
(horses and sheep):

H. H. Reese, B. S., *Assoc. An. Husb.*,
in charge.

J. A. Stoehr, B. S., *Jr. An. Husb.*

Miles City, Mont. Coop. Expts. with
Mont. Expt. Sta. (beef cattle, sheep,
swine, horses, and poultry):

J. W. Swartz, *Farm Foreman*, in
charge.

A. L. Baker, B. S., *Jr. An. Husb.*

Newell, S. Dak. Belle Fourche Expt.
Farm (swine and sheep):

Beyer, Anne, M. S., *Jr. An. Husb.*,
in charge.

Stamford, Tex. Coop. Expts. with Tex.
Expt. Sta. (beef cattle):

V. V. Parr, B. S., *Assoc. An. Husb.*, in
charge.

Tucumcari, N. Mex. Coop. Expts. with
N. Mex. Expt. Sta. (beef cattle):

D. R. Burnham, B. S. (Bur. Plant
Ind.), in charge.

BIOCHEMIC DIVISION

M. Dorset, B. S., M. D., D. V. M., *Sr.*
Biochem., Chief.

James A. Emery, M. D., *Biochem.*, *Asst.*
Chief.

Hog-Cholera Investigations:

Chief of Div. in charge.

W. B. Niles, D. V. M., *Vet. Insp.*, in
charge field station, Ames, Iowa.

C. N. McBryde, M. S., M. D., Ph. D.,
Assoc. Bact.

F. W. Tilley, A. B., M. D., *Assoc. Bact.*

R. R. Henley, M. S., *Assoc. Biochem.*

Henry E. Moskey, V. M. D., *Asst. Vet.*

Biochemical Investigations of Meats:

Ralph Hoagland, B. Agr., *Biochem.*, in
charge.

Wilmer C. Powick, B. A., *Assoc. Biochem.*

George G. Snider, A. B., *Sr. Sci. Aid.*

Warren L. Briggs, *Minor Sci. Helper.*

Dip and Disinfectant Investigations:

Robt. M. Chapin, B. A., *Biochem.*, in
charge.

Jacob M. Schaffer, M. S., *Asst. Chem.*

Tuberculin and Mallein Production:

Asst. Chief of Div. in charge.

Albert M. West, B. S., *Asst. Bact.*

Percy W. LeDuc, A. B., *Jr. Chem.*

Angus D. MacDonald, D. V. M., *Jr. Vet.*

Insecticide and Fungicide Work (for Insecti-
cide and Fungicide Board):

Asst. Chief of Div. in charge.

Horace H. Custis, M. A., Ph. D., *Assoc.*
Chem.

James Norman Taylor, M. S., *Asst. Chem.*

Frank A. Spurr, B. S., *Jr. Chem.*

PATHOLOGICAL DIVISION

John S. Buckley, D. V. S., *Sr. Path., Chief.*
 Henry J. Washburn, D. V. M., *Asst. Chief.*

General Pathology:

Robt. J. Formad, V. M. D., M. D., *Assoc. Path.*

Gilbert T. Creech, D. V. S., *Assoc. Vet.*
 Geo. W. Stiles, M. D., Ph. D., *Assoc. Bact., in charge Branch Path. Lab., Denver, Colo.*

L. Enos Day, V. S., *Assoc. Vet., in charge Branch Path. Lab., Chicago, Ill.*

G. Byron Morse, M. D., Ph. D., V. S., *Asst. Bact., in charge Branch Path. Lab., Omaha, Nebr.*

Maude E. Starcher, *Under Sci. Helper, Lab. Aid in Bact., Denver, Colo.*

Diseases of Animals:

Henry J. Washburn, D. V. M., *Bact., Tuberculosis Invest.*

John M. Buck, D. V. M., *Assoc. Bact., Abortion Invest.*

Warren B. Shook, V. M. D., *Asst. Vet., Tuberculosis Invest.*

Hubert Bunyea, D. V. S., A. B., *Assoc. Vet., Poultry Diseases Invest.*

L. T. Giltner, V. M. D., M. S., *Assoc. Vet., Forage Poisoning and Misc. Diseases.*

Howard E. Smith, D. V. M., *Assoc. Vet., Abortion Invest.*

Poisonous Plants:

C. Dwight Marsh, Ph. D., *Assoc. Physiol.*

Arthur B. Clawson, B. A., *Assoc. Physiol.*

Jas. F. Couch, A. M., *Assoc. Chem.*

Glenwood C. Roe, B. A., *Jr. Physiol.*

Lee C. Manning, *Under Sci. Helper.*

Serums, Viruses, Toxins:

William S. Gochenour, V. M. D., *Assoc. Vet., Bact. Invest.*

Harry W. Schoening, V. M. D., *Assoc. Vet., Serological Invest.*

William M. Mohler, D. V. M., *Jr. Vet., Serological Invest.*

DIVISION OF VIRUS-SERUM CONTROL

D. I. Skidmore, V. S., *Sr. Vet., Chief.*

R. E. Holm, D. V. M., *Vet., Asst. Chief.*

Field and Substations:

Albany, Ga.—C. A. Klein, D. V. M., *Asst. Vet., Insp. in charge.*

Berkeley, Calif.—W. J. Stewart, M. D., D. V. S., *Assoc. Vet., Insp. in charge.*

G. P. Rebolt, D. V. M., *Asst. Vet., Insp., French Camp, Calif.*

East St. Louis, Ill.—J. W. Joss, D. V. S., *Assoc. Vet., Insp. in charge.*

W. D. Livermore, D. V. M., *Asst. Vet., Insp., Aurora, Ill.*

W. T. Bollmeier, D. V. M., *Jr. Vet., Insp., Whitehall, Ill.*

Fort Dodge, Iowa.—D. G. Tepfer, D. V. M., *Asst. Vet., Insp. in charge.*

B. McCarmack, D. V. M., *Asst. Vet., Insp. in charge, Des Moines, Iowa.*

Fort Worth, Tex.—E. T. Marsh, D. V. M., *Asst. Vet., Insp. in charge.*

Field and Substations—Continued.

Grenada, Miss.—J. S. Clark, D. V. M., *Asst. Vet., Insp. in charge.*

Indianapolis, Ind.—J. D. Stillwell, D. V. M., *Assoc. Vet., Insp. in charge.*

H. C. Berger, D. V. M., *Asst. Vet., Insp., Fostoria, Ohio.*

M. E. Schwab, D. V. M., *Asst. Vet., Insp., Greenfield, Ind.*

O. C. Mayer, M. D. V., *Asst. Vet., Insp., Noblesville, Ind.*

G. D. Ashley, D. V. M., *Asst. Vet., Insp., Thorntown, Ind.*

O. R. Conley, D. V. M., *Asst. Vet., Insp., Columbus, Ohio.*

B. H. Yenner, *Asst. Vet., Insp., Plainfield, Ind.*

R. Thumann, *Asst. Vet., Insp., Zionsville, Ind.*

Kansas City, Kans.—F. A. Imler, D. V. M., *Vet., Insp. in charge.*

O. E. Herl, D. V. M., *Asst. Vet., Asst. Insp. in charge.*

J. C. Bolton, D. V. M., *Jr. Vet., Insp., Converse, Mo.*

A. L. Faunce, M. D. C., *Asst. Vet., Insp., Franklin, Nebr.*

F. H. Schaefer, D. V. M., *Asst. Vet., Insp., Marshall, Mo.*

H. R. McNally, D. V. S., *Asst. Vet., Insp., St. Joseph, Mo.*

L. R. Rohrer, D. V. S., *Asst. Vet., Insp., South St. Joseph, Mo.*

Walter Boyce, D. V. M., *Insp., Superior, Nebr.*

Oklahoma City, Okla.—E. A. Meyer, D. V. S., *Asst. Vet., Insp. in charge.*

Omaha, Nebr.—H. H. Day, D. V. M., *Assoc. Vet., Insp. in charge.*

C. D. Stein, D. V. M., *Asst. Vet. Insp., Grand Island, Nebr.*

J. H. Cock, D. V. S., *Asst. Vet., Insp., Hooper, Nebr.*

W. C. Hamilton, Jr., D. V. M., *Asst. Vet., Insp., Ralston, Nebr.*

Ottumwa, Iowa.—E. E. Lollar, D. V. M., *Asst. Vet., Insp. in charge.*

F. D. Houston, D. V. M., *Jr. Vet., Insp., Cedar Rapids, Iowa.*

C. P. Lunneen, D. V. M., *Asst. Vet., Insp., Muscatine, Iowa.*

Pearl River, N. Y.—J. P. O'Leary, M. D. V., *Assoc. Vet., Insp. in charge.*

Sioux City, Iowa.—L. B. Vermillion, D. V. M., *Assoc. Vet., Insp. in charge.*

E. Combs, D. V. S., *Asst. Vet., Insp., Sioux Falls, S. Dak.*

Topeka, Kans.—C. B. Clement, *Asst. Vet., Insp. in charge.*

Westplains, Mo.—J. F. Park, *Asst. Vet., Insp. in charge.*

Wichita, Kans.—F. N. Elwell, D. V. M., *Assoc. Vet., Insp. in charge.*

G. C. Gulick, D. V. M., *Asst. Vet., Insp., Hutchinson, Kans.*

ZOOLOGICAL DIVISION

B. H. Ransom, B. Sc., A. M., Ph. D., D. Sc.,
Chief.

Parasites of Livestock:

Maurice C. Hall, S. B., A. M., Ph. D.,
D. V. M., *Zool.*

Edward A. Chapin, M. S., Ph. D., *Asst.*
Zool.

Benjamin Schwartz, A. M., Ph. D., *Asst.*
Zool.

Eloise B. Cram, M. S., *Asst. Zool.*

J. E. Shillinger, D. V. M., *Asst. Vet.*

Marion Imes, D. V. M., M. S., *Vet.*,
External parasites, Kansas City, Kans.

H. B. Raffensperger, D. V. M., *Asst. Vet.*,
Internal parasites of swine, Chicago,
Ill.

E. M. Nighbert, D. V. S., *Asst. Vet.*,
Stomach worms of sheep, Queen City,
Mo.

Cooper Curtice, D. V. M., M. D., *Asst.*
Vet., *Internal parasites of sheep,*
Vienna, Va.

Systematic Parasitology:

Albert Hassall, M. R. C. V. S., *Assoc.*
Zool.

Helen F. Moseley, A. B., *Lab. Aid.*

MEAT-INSPECTION DIVISION

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A. J. Pistor, D. V. S., *Vet., Asst. Chief.*

E. C. Joss, B. S., D. C. M., *Vet., Asst. Chief.*

Wm. H. Smith, jr., V. M. D., *Assoc. Vet.*,
in charge miscellaneous work.

F. W. Meyst, D. V. S., *Assoc. Vet.*, *in*
charge Label Section.

G. H. Parks, *Assoc. Sanitary Engin.*

Robert H. Kerr, B. S., *Chem.*, *in charge*
Meat Insp. Lab.

Field Stations:

Albany, N. Y.—E. H. Baumann, M. D. V.,
Asst. Vet., *Insp. in charge.*

Albert Lea, Minn.—C. E. Schneider,
D. V. S., *Asst. Vet.*, *Insp. in charge.*

Allentown, Pa.—G. W. Famous, V. M. D.,
Asst. Vet., *Insp. in charge.*

Alton, Ill.—James Johnston, V. S., M. D.,
Asst. Vet., *Insp. in charge.*

Altoona, Pa.—F. P. Miller, D. V. M.,
Asst. Vet., *Insp. in charge.*

Arkansas City, Kans.—F. E. Haworth,
V. M. D., *Asst. Vet.*, *Insp. in charge.*

Athens, Ohio.—P. J. Huffman, jr., D. V.
S., *Asst. Vet.*, *Insp. in charge.*

Atlanta, Ga.—G. T. Cole, V. M. D.,
Asst. Vet., *Insp. in charge.*

Auburn, Me.—L. K. Green, V. M. D.,
Asst. Vet., *Insp. in charge.*

Augusta, Ga.—J. E. Lovejoy, D. V. S.,
Asst. Vet., *Insp. in charge.*

Austin, Minn.—E. W. Barthold, M. D. C.,
Asst. Vet., *Insp. in charge.*

Baltimore, Md.—H. A. Hedrick, D. V. S.,
Assoc. Vet., *Insp. in charge.*

Field Stations—Continued.

Birmingham, Ala.—W. H. Meadors, D.
V. S., *Asst. Vet.*, *Insp. in charge.*

Boise, Idaho.—A. J. Creely, D. V. M.,
Asst. Vet., *Insp. in charge.*

Boston, Mass.—J. F. Ryder, D. V. S.,
Assoc. Vet., *Insp. in charge.*

Bridgeport, Conn.—Fred Hern, *Principal*
Lay Insp., *in charge.*

Brooklyn, N. Y.—Albert Long, M. D. V.,
Assoc. Vet., *Insp. in charge.*

Buffalo, N. Y.—B. P. Wende, V. S., *Vet.*,
Insp. in charge.

Burlington, Vt.—L. B. Whitney, D. V. S.,
Asst. Vet., *Insp. in charge.*

Butte, Mont.—Albert E. Evans, M. D. C.,
Asst. Vet., *Insp. in charge.*

Cairo, Ill.—J. R. Brown, D. V. M., *Asst.*
Vet., *Insp. in charge.*

Cedar Rapids, Iowa.—A. M. Casper, M.
D. C., *Asst. Vet.*, *Insp. in charge.*

Charlotte, N. C.—Jacob Vogel, *Prin. Lay*
Insp., *in charge.*

Chattanooga, Tenn.—F. H. Collins, V. M.
D., *Asst. Vet.*, *Insp. in charge.*

Chicago, Ill.—W. N. Neil, V. S., *Vet.*,
Insp. in charge.

C. T. N. Marsh, *Assoc. Chemist*, *in*
charge of Lab.

Cincinnati, Ohio.—Frank Jelen, D. V. S.,
Assoc. Vet., *Insp. in charge.*

Cleveland, Ohio.—H. H. George, D. V. S.,
Assoc. Vet., *Insp. in charge.*

Columbus, Ohio.—O. W. Everly, D. V. S.,
Asst. Vet., *Insp. in charge.*

Cumberland, Md.—J. C. Shafer, *Prin. Lay*
Insp., *in charge.*

Davenport, Iowa.—Peter A. Franzmann,
D. V. M., *Asst. Vet.*, *Insp. in charge.*

Dayton, Ohio.—W. O. Trone, D. V. M.,
Assoc. Vet., *Insp. in charge.*

Denver, Colo.—C. F. Payne, V. S., *Assoc.*
Vet., *Insp. in charge.*

Des Moines, Iowa.—C. W. Deming, D. V.
M., *Asst. Vet.*, *Insp. in charge.*

Detroit, Mich.—E. P. Schaffter, V. S.,
Assoc. Vet., *Insp. in charge.*

Dubuque, Iowa.—H. H. Dell, D. V. S.,
Asst. Vet., *Insp. in charge.*

Duluth, Minn.—Chester Miller, V. S.,
Asst. Vet., *Insp. in charge.*

Eau Claire, Wis.—Wm. Fotheringham,
V. S., *Asst. Vet.*, *Insp. in charge.*

El Paso, Tex.—T. A. Bray, D. V. S.,
Asst. Vet., *Insp. in charge.*

Erie, Pa.—E. P. Barnhardt, D. V. M.,
Asst. Vet., *Insp. in charge.*

Evansville, Ind.—Louis Metsker, M. D.
C., *Asst. Vet.*, *Insp. in charge.*

Fergus Falls, Minn.—M. L. Davenport,
D. V. M., *Asst. Vet.*, *Insp. in charge.*

Fort Smith, Ark.—W. B. Nichols, *Prin.*
Lay Insp., *in charge.*

Fort Wayne, Ind.—Joshua Miller, V. S.,
Asst. Vet., *Insp. in charge.*

Fort Worth, Tex.—C. L. Norris, D. V. S.,
Assoc. Vet., *Insp. in charge.*

Field Stations—Continued.

Frankfort, Ind.—Charles Corson, D. V. M., *Asst. Vet., Insp. in charge.*
 Frederick, Md.—W. F. Osborn, D. V. S., *Asst. Vet., Insp. in charge.*
 Grand Forks, N. Dak.—J. J. Kitzhofer, D. V. S., *Asst. Vet., Insp. in charge.*
 Green Bay, Wis.—W. A. Donegan, *Prin. Lay Insp., in charge.*
 Hallstead, Pa.—S. M. Page, V. M. D., *Asst. Vet., Insp. in charge.*
 Harrisburg, Pa.—W. C. Siegmund, D. V. S., *Asst. Vet., Insp. in charge.*
 Hartford, Conn.—W. E. Jennings, *Prin. Lay Insp., in charge.*
 Haverhill, Mass.—H. Q. Thompson, V. S., *Asst. Vet., Insp. in charge.*
 Helena, Ark.—B. L. McCaslin, *Prin. Lay Insp., in charge.*
 Henderson, Ky.—R. H. Nutt, D. V. M., *Asst. Vet., Insp. in charge.*
 Houlton, Me.—I. H. Kaufman, D. V. M., *Asst. Vet., Insp. in charge.*
 Houston, Tex.—C. F. Palmer, V. S., *Asst. Vet., Insp. in charge.*
 Indianapolis, Ind.—G. W. Butler, V. S., *Assoc. Vet., Insp. in charge.*
 Ironwood, Mich.—E. J. Noll, *Prin. Lay Insp., in charge.*
 Jacksonville, Fla.—E. F. Haven, D. V. S., *Asst. Vet., Insp. in charge.*
 Jacksonville, Ill.—J. Robinson, D. V. M., *Asst. Vet., Insp. in charge.*
 Jersey City, N. J.—T. J. Kean, D. V. M., *M. D., Assoc. Vet., Insp. in charge.*
 Kansas City, Kans.—James Fleming, V. S., *M. D., Vet., Insp. in charge.*
 H. C. Kershner, *Asso. Chem. in charge of Lab.*
 Keene, N. H.—T. W. Carnachan, M. R. C. V. S., *Asst. Vet., Insp. in charge.*
 Knoxville, Tenn.—S. A. King, D. V. S., *Asst. Vet., Insp. in charge.*
 La Fayette, Ind.—C. H. Herrold, M. D. V., V. S., *Asst. Vet., Insp. in charge.*
 Leavenworth, Kans.—E. N. Tierney, D. C. M., *Asst. Vet., Insp. in charge.*
 Lewiston, Idaho.—F. G. Miller, D. V. M., *Asst. Vet., Insp. in charge.*
 Logansport, Ind.—C. H. Deisel, D. V. M., *Asst. Vet., Insp. in charge.*
 Los Angeles, Calif.—G. T. Irons, D. V. S., *Assoc. Vet., Insp. in charge.*
 Louisville, Ky.—J. B. Johnson, D. V. M., *Assoc. Vet., Insp. in charge.*
 Madison, Ind.—R. R. Newman, D. V. S., *Asst. Vet., Insp. in charge.*
 Madison, Wis.—L. A. Licking, D. C. M., *Asst. Vet., Insp. in charge.*
 Manchester, N. H.—W. F. Quigley, *Prin. Lay Insp., in charge.*
 Marion, Ohio.—F. E. Theobald, D. V. M., *Asst. Vet., Insp. in charge.*
 Mason City, Iowa.—C. L. Elliott, D. V. M., *Asst. Vet., Insp. in charge.*
 Memphis, Tenn.—C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge.*

Field Stations—Continued.

Menominee, Mich.—O. A. Christianson, M. D. V., *Asst. Vet., Insp. in charge.*
 Milwaukee, Wis.—A. E. Behnke, D. V. M., *Assoc. Vet., Insp. in charge.*
 A. D. Bullock, D. V. M., *Vet., Trav. Vet. Insp.*
 Montgomery, Ala.—B. H. Moon, D. V. M., *Asst. Vet., Insp. in charge.*
 Morristown, Tenn.—C. P. Hart, V. S., *Asst. Vet., Insp. in charge.*
 Moscow, Idaho.—S. V. Ewers, D. V. S., *Asst. Vet., Insp. in charge.*
 Moultrie, Ga.—J. R. Aufente, D. V. S., *Asst. Vet., Insp. in charge.*
 Nashville, Tenn.—E. F. Cary, D. V. S., *Asst. Vet., Insp. in charge.*
 Natchez, Miss.—W. K. McConnell, D. V. S., *Asst. Vet., Insp. in charge.*
 National Stock Yards, Ill.—J. S. Jenison, D. V. M., *Vet., Insp. in charge.*
 Nebraska City, Nebr.—G. A. Kay, D. C. M., *Asst. Vet., Insp. in charge.*
 Newark, N. J.—A. F. Martins, D. V. S., *Assoc. Vet., Insp. in charge.*
 New Haven, Conn.—S. A. Selby, D. V. S., *Asst. Vet., Insp. in charge.*
 New Orleans, La.—A. F. Staub, D. V. M., *Assoc. Vet., Insp. in charge.*
 New York, N. Y.—D. R. Gillies, V. S., *M. D., Vet., Insp. in charge.*
 W. F. Schroeder, B. S., *Assoc. Chemist, in charge of Lab.*
 Norfolk, Va.—J. M. Harris, *Prin. Lay Insp., in charge.*
 Ogden, Utah.—W. D. Wright, M. D. C., *Asst. Vet., Insp. in charge.*
 Oklahoma City, Okla.—J. S. Grove, V. S., *Assoc. Vet., Insp. in charge.*
 Omaha, Nebr.—Herman Busman, V. S., *M. D., Vet., Insp. in charge.*
 E. A. Boyer, B. S., *Assoc. Chem., in charge of Lab.*
 F. P. St. Clair, D. V. M., *M. D., Vet., Trav. Vet. Insp.*
 Ottumwa, Iowa.—F. T. Suit, D. V. M., *Asst. Vet., Insp. in charge.*
 Paterson, N. J.—A. McBride, M. D. C., *Asst. Vet., Insp. in charge.*
 Pearl River, N. Y.—J. P. O'Leary, M. D. V., *Assoc. Vet., Insp. in charge.*
 Peoria, Ill.—A. N. Hughes, M. D. V., *Asst. Vet., Insp. in charge.*
 Philadelphia, Pa.—Thomas Castor, V. M. D., *Assoc. Vet., Insp. in charge.*
 Pittsburg, Kans.—W. K. Howard, M. D. C., *Asst. Vet., Insp. in charge.*
 Pittsburgh, Pa.—C. J. Millen, D. V. M., *Assoc. Vet., Insp. in charge.*
 Portland, Me.—A. N. Smith, V. M. D., *Asst. Vet., Insp. in charge.*
 Portland, Oreg.—M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*
 Pottsville, Pa.—G. H. Woolfolk, D. V. S., *Asst. Vet., Insp. in charge.*
 Providence, R. I.—H. M. Smith, M. D. V., *Assoc. Vet., Insp. in charge.*

Field Stations—Continued.

Pueblo, Colo.—B. F. Gooch, D. V. S.,
Asst. Vet., Insp. in charge.
Reno, Nev.—L. C. Butterfield, D. C.
M., *Assoc. Vet., Insp. in charge.*
Richmond, Va.—Henry Marshall, D. V.
M., *Asst. Vet., Insp. in charge.*
Richmond, Ind.—C. O. Wagoner, V. S.,
Asst. Vet., Insp. in charge.
St. Louis, Mo.—T. B. Pote, D. V. S.,
Assoc. Vet., Insp. in charge.
C. H. Swanger, B. S., *Assoc. Chem., in*
charge of Lab.
Salt Lake City, Utah.—E. P. Durham,
D. V. M., *Asst. Vet., Insp. in charge.*
San Diego, Calif.—Joel E. Cloud, V. S.,
Asst. Vet., Insp. in charge.
Sandpoint, Idaho.—H. C. Ingraham, D. V.
M., *Asst. Vet., Insp. in charge.*
San Francisco, Calif.—H. H. Hicks, M.
D. V., *Assoc. Vet., Insp. in charge.*
A. E. Graham, Ph. B., *Assoc. Chem., in*
charge of Lab.
Seattle, Wash.—Jens Madsen, D. V. M.,
M. D., *Assoc. Vet., Insp. in charge.*
Shreveport, La.—Levi Bryant, *Prin. Lay*
Insp., in charge.
Sidney, Ohio.—C. T. Snyder, D. V. M.,
Asst. Vet., Insp. in charge.
Sioux City, Iowa.—T. A. Shipley, D. V.
S., *Assoc. Vet., Insp. in charge.*
Sioux Falls, S. Dak.—E. S. Dickey, D. V.
S., *Assoc. Vet., Insp. in charge.*
South St. Joseph, Mo.—R. W. Culbert,
M. D. V., *Assoc. Vet., Insp. in charge.*
South St. Paul, Minn.—G. E. Totten,
D. C. M., *Vet., Insp. in charge.*
Spokane, Wash.—E. D. Kennedy, D. V. S.,
Asst. Vet., Insp. in charge.
Springfield, Mass.—H. E. Brown, M. D.
V., *Asst. Vet., Insp. in charge.*
Tacoma, Wash.—J. S. Kelly, D. V. S.,
Asst. Vet., Insp. in charge.
Terre Haute, Ind.—L. H. Allen, M. D. V.,
Asst. Vet., Insp. in charge.
Texarkana, Tex.—H. G. Potter, *Prin.*
Lay Insp. in charge.
Toledo, Ohio.—S. W. Burt, V. S., *Asst.*
Vet., Insp. in charge.
Topeka, Kans.—F. S. Bingham, D. V. S.,
Asst. Vet., Insp. in charge.
Union City, Tenn.—J. H. Byerly, D. V.
M., *Asst. Vet., Insp. in charge.*
Vicksburg, Miss.—Philip F. R. Meyer,
D. V. M., *Asst. Vet., Insp. in charge.*
Walla Walla, Wash.—C. A. Johnston,
D. V. S., *Asst. Vet., Insp. in charge.*
Washington, D. C.—H. K. Walter, D. V.
M., *Assoc. Vet., Insp. in charge.*
Washington Court House, Ohio.—A. H.
Carpenter, *Prin. Lay Insp., in charge.*
Waterloo, Iowa.—J. E. Shelton, D. V. S.,
Asst. Vet., Insp. in charge.
Wheeling, W. Va.—B. J. Stockler, D. V.
M., *Asst. Vet., Insp. in charge.*
Wichita, Kans.—F. D. Ketchum, D. C.
M., *Assoc. Vet., Insp. in charge.*

Field Stations—Continued.

Wilmington, Del.—G. E. Repp, M. D. C.,
Asst. Vet., Insp. in charge.
Wilmington, N. C.—H. L. Shaffer, *Prin.*
Lay Insp. in charge.
Winona, Minn.—L. A. Wilson, D. V. M.,
Asst. Vet., Insp. in charge.
Worcester, Mass.—M. T. Perry, M. D. V.,
Asst. Vet., Insp. in charge.
Yakima, Wash.—J. E. Ewers, D. V. S.,
Asst. Vet., Insp. in charge.
Zanesville, Ohio.—W. O. McHugh, V. S.,
Asst. Vet., Insp. in charge.

DIVISION OF HOG-CHOLERA CON-
TROL

U. G. Houck, B. S., D. V. M., *Sr. Vet.,*
Chief.

T. P. White, D. V. S., *Vet., Asst. Chief.*

Field Stations (work conducted in coopera-
tion with State authorities):

Alabama—Howard C. Wilson, D. V. M.,
Asst. Vet., Insp. in charge, Montgom-
ery.

Arkansas—Hugh L. Fry, V. M. D., *Asst.*
Vet., Insp. in charge, Little Rock.

California—Rudolph Snyder, D. V. M.,
Assoc. Vet., Insp. in charge, Sacra-
mento.

Colorado—W. E. Howe, D. V. M., *Assoc.*
Vet., Insp. in charge, Denver.

Delaware—Morris Zurkow, V. M. D.,
Asst. Vet., Insp. in charge, Dover.

Florida—J. G. Fish, D. V. M., *Asst. Vet.,*
Insp. in charge, Tallahassee.

Georgia—A. L. Hirdeman, D. V. M.,
Assoc. Vet., Insp. in charge, Atlanta.

Idaho—W. A. Sullivan, D. V. M., *Asst.*
Vet., Insp. in charge, Boise.

Illinois—James McDonald, D. V. M.,
Asst. Vet., Insp. in charge, Spring-
field.

Indiana—J. E. Gibson, D. V. M., *Assoc.*
Vet., Insp. in charge, Indianapolis.

Iowa—J. A. Barger, D. V. S., *Vet., Insp.*
in charge, Des Moines.

Kansas—N. L. Townsend, V. M. D.,
Assoc. Vet., Insp. in charge, Topeka.

Kentucky—W. F. Biles, D. V. M., *Assoc.*
Vet., Insp. in charge, Frankfort.

Louisiana—C. J. Becker, D. V. M.,
Assoc. Vet., Insp. in charge, Baton
Rouge.

Maryland—I. K. Atherton, V. S., *Assoc.*
Vet., Insp. in charge, College Park.

Mississippi—L. E. Lyons, V. S., *Asst.*
Vet., Insp. in charge, Jackson.

Missouri—Ralph Graham, D. V. M.,
Assoc. Vet., Insp. in charge, Jefferson
City.

Montana—J. W. Murdoch, D. V. S.,
Assoc. Vet., Inspector in charge, Hel-
ena.

Nebraska—A. H. Francis, D. V. M., *Asst.*
Vet., Acting Insp. in charge, Lincoln.

Field Stations—Continued.

- North Carolina—W. C. Dendinger, D. V. M., *Assoc. Vet., Insp. in charge*, Raleigh.
- North Dakota—J. B. Hollenbeck, D. V. M., *Asst. Vet., Insp. in charge*, Bismarck.
- Ohio—A. J. De Fosset, D. V. M., *Assoc. Vet., Insp. in charge*, Columbus.
- Oklahoma—Harry Grafke, D. V. S., *Assoc. Vet., Insp. in charge*, Oklahoma City.
- South Carolina—W. K. Lewis, D. V. M., *Assoc. Vet., Insp. in charge*, Columbia.
- South Dakota—J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge*, Pierre.

Field Stations—Continued.

- Tennessee—J. P. O'Connor, D. V. S., *Asst. Vet., Acting Insp. in charge*, Nashville.
- Texas—Leslie J. Allen, V. S., *Vet., Insp. in charge*, Fort Worth.
- Utah—F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge*, Salt Lake City.
- Virginia—T. M. Owen, V. S., *Asst. Vet., Insp. in charge*, Norfolk.
- Washington—J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge*, Olympia.
- Wisconsin—J. T. Purcell, D. V. M., *Asst. Vet., Insp. in charge*, Madison.

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- C. W. Larson, M. S., Ph. D., *Chief*.
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- Condensed-Milk Investigations:**
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- Raymond Bell, M. S. A., Ph. D., *Assoc. Dairy Manf. Spec.*
- Anne Benton, M. A., *Asst. Bact.*
- E. F. Deysher, B. S., *Asst. Chem.*
- Cheese Manufacturing Investigations:**
- W. R. Albus, B. S., *Assoc. Bact.*
- A. J. Boyer, B. S., *Jr. Dairy Manf. Spec.*
- Sumner Hall, B. S., *Asst. Dairy Manf. Spec.*
- K. J. Matheson, B. S., *Dairy Manf. Spec.*
- Donald Warren, B. S., *Jr. Dairy Manf. Spec.*
- Butter and By-Products:**
- Raymond Bell, M. S. A., Ph. D., *Assoc. Dairy Manf. Spec.*
- P. D. Boone, B. A., *Asst. Chem.*
- F. R. Evans, B. S., *Jr. Bact.*
- G. R. Greenbank, B. A., *Asst. Chem.*
- G. E. Holm, M. S., Ph. D., *Biol. Chem.*
- W. T. Johnson, S. B., *Asst. Bact.*
- E. O. Whittier, M. S., *Ch. E., Chem.*
- P. A. Wright, M. A., *Asst. Chem.*
- Ice Cream Investigations:**
- P. N. Peter, B. S., *Asst. Chem.*
- O. E. Williams, B. S., *Asst. Dairy Manf. Spec.*
- Nutrition of Dairy Cows:**
- C. A. Cary, S. B., *Assoc. Chem.*
- H. T. Converse, B. S., M. A., *Asst. Dairy Husb.*
- F. M. Grant, B. S., *Jr. Dairy Manf. Spec.*
- T. S. Harding, B. S., *Asst. Chem.*
- A. M. Hartman, *Jr. Chem.*
- E. B. Meigs, A. B., M. D., *Physiol.*
- W. A. Turner, M. A., Ph. D., *Asst. Chem.*

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- P. E. Le Fevre, B. S., *Asst. Market Milk Spec.*
- Dairy Sanitation:**
- L. H. Burgwald, B. S. A., *Asst. Market Milk Spec.*
- C. S. Leete, B. S., *Assoc. Market Milk Spec.*
- R. J. Posson, B. S. A., *Asst. Market Milk Spec.*
- R. S. Smith, B. S. A., *Asst. Market Milk Spec.*
- Market Milk and Cream:**
- C. J. Babcock, B. S. A., *Asst. Market Milk Spec.*
- R. P. Hotis, B. S. A., *Asst. Market Milk Spec.*
- C. S. Leete, B. S., *Assoc. Market Milk Spec.*
- R. S. Smith, B. S. A., *Asst. Market Milk Spec.*

DAIRY INTRODUCTION

- J. R. Dawson, B. S. A., A. M., *Dairy Husb., acting in charge*.
- Dairy Manufacturing Investigations:**
- G. E. Braun, B. S. A., *Asst. Market Milk Spec.*

Dairy Manufacturing Investigations—Con.

- G. R. Campbell, B. S. A., *Assoc. Dairy Manf. Spec.*
 L. S. Edwards, Lebanon, Tenn., *Dairy Manf. Spec. (Coop.)*.
 Albert Fenger, A. & M. College, Miss., *Agent in Dairying (Coop.)*.
 R. E. Hardell, B. S. A., *Asst. Dairy Manf. Spec.*
 H. C. Jackson, M. S., Ph. D., Grove City, Pa., *Assoc. Dairy Manf. Spec.*
 C. S. Trimble, B. S. A., *Asst. Dairy Manf. Spec.*
 G. N. Tobey, Nashville, Tenn., *Agt. in Dairying (Coop.)*.
 Wm. White, B. S. A., *Assoc. Dairy Manf. Spec.*
 H. L. Wilson, Boone, N. C., *Cheesemaker.*

Milk Utilization:

- Florence L. Hall, B. S., *Assoc. Spec. in Milk Util.*
 Jessie M. Hoover, B. S., *Assoc. Spec. in Milk Util.*

Dairy Herd Improvement:

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 J. H. McClain, B. S. A., *Assoc. Dairy Husb.*
 J. C. McDowell, B. S. A., M. A., *Assoc. Dairy Husb.*
 J. B. Parker, B. S. A., *Assoc. Dairy Husb.*
 Blaine Paulson, Madison, Wis., *Agt. in Dairying (Coop.)*.
 H. C. Searles, Fond du Lac, Wis., *Agt. in Dairying (Coop.)*.
 Erwin Sutton, Augusta, Wis., *Agt. in Dairying (Coop.)*.

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 G. R. Campbell, B. S. A., *Assoc. Dairy Manf. Spec.*
Navy Butter Supervision:
 G. R. Campbell, B. S. A., *Assoc. Dairy Manf. Spec.*
Western Office, Salt Lake City, Utah:
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 H. R. Lochry, B. S. A., *Asst. Dairy Manf. Spec.*
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 Beltsville, Md.—T. E. Woodward, M. S., *Supt.*
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 Woodward, Okla.—C. J. Stauber, Sr., *Dairy Herdsman.*

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 Charlotte Elliott, A. M., Ph. D., *bacterial-disease invest. of cereals.*

Assistant Pathologists:

- R. E. B. McKeeney, M. S., A. M., Ph. D., *bacterial and fungous disease invest. of tobacco.*
 Florence Hedges, A. B., *bacterial disease invest. of beans.*
 Lucia McCulloch, B. S., *bacterial disease invest.—soft rots and misc.*

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Mary Katherine Bryan, A. B., *bacterial-disease invest.*

Harry Braun, B. S., M. A., *bacterial-disease invest. of wheat and misc.*

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Edna H. Fawcett, B. L., *culture media and bacterial-disease invest.*

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Senior Scientific Aid:

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OFFICE OF COTTON, TRUCK, AND
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- H. A. Edson, M. S., Ph. D., *Sr. Path. in
charge*.

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Leonard L. Harter, M. S., Ph. D., *sweet
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Eugene S. Schultz, M. S., *potato diseases*.
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Associate Pathologists:

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Associate Pathologists—Continued.

Michael Shapovalov, B. A., M. S., *western tomato diseases*, Hdqrs. Citrus Expt. Sta., Riverside, Calif.

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Harry Bisset, *sweet potato diseases*.

Will A. Whitney, *sweet potato and bean diseases*.

Junior Scientific Aid:

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Associate Physiologists:

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Lewis T. Leonard, B. S., M. A., *invest. in legume bacteria*.

Assistant Biochemist:

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Senior Scientific Aids—Continued.

- R. L. Taylor, *crop acclimatization invest.*
 Ernest W. Hardy, *rubber production invest.*, Hdqrs. Torrey Pines, Calif.
 Wm. P. Snyder, M. S., *cotton breeding invest.*, Hdqrs. Greenville, Tex.
 Assistant Scientific Aids:
 R. E. Beckett, *cotton breeding invest.*, Hdqrs. Greenville, Tex.
 Galen O. Belden, *crop acclimatization invest.*, Hdqrs. Shafter, Calif.
 A. D. Harvey, *crop acclimatization invest.*
 L. R. Lytton, *crop acclimatization invest.*, Hdqrs. Sacaton, Ariz.
 D. L. Varmette, *rubber production and crop acclimatization invest.*, Hdqrs. Torrey Pines, Calif.
 Robert S. Stitt, *rubber production invest.*, Hdqrs. Bard, Calif.

OFFICE OF DRUG AND OTHER PLANTS

- W. W. Stockberger, Ph. D., *Sr. Physiol. in charge*.
 Biochemist:
 Otis F. Black, A. M., *chem. invest. on poisonous plants*.
 Associate Biochemist:
 Arthur F. Sievers, Ph. G., B. S., *chem. invest. on fixed oils and drug plants*.
 Assistant Biochemist:
 Frank Rabak, Ph. G., B. S., *chem. invest. on waste products and fixed oils*.
 Assistant Botanist:
 Willard W. Eggleston, B. S., *bot. invest. on poisonous plants*.
 Junior Biochemist:
 James W. Kelly, Pharm. D., *asst. in chem. invest. on poisonous plants*.
 Senior Scientific Aid:
 Morris S. Lowman, B. A., *asst. in chem. invest. on fixed oils and drugs*.

OFFICE OF AGRICULTURAL TECHNOLOGY

- N. A. Cobb, B. S., M. A., Ph. D., *Sr. Nematol. in charge*.
 Nematologist:
 G. Steiner, B. S., M. A., Ph. D., *nematode invest.*
 Associate Nematologist:
 J. R. Christie, B. S., M. A., *nema parasites of insects*.
 Assistant Pathologist:
 E. G. Arzberger, Ph. B., M. A., *mycorrhizal invest. of plants*.
 Junior Nematologists:
 Helen M. Heinly, A. B., *nematode invest.*
 Charlotte E. Sprenkel, A. B., *nematode invest.*
 Mary Bradley, A. B., *nematode invest.*
 Edna M. Buhner, A. B., *nematode invest.*
 Senior Laboratory Mechanic:
 M. L. Harrison, *devising and designing apparatus; misc. tech. work*.

Laboratory Mechanic:

C. B. Bateman, *devising and designing apparatus; misc. tech. work.*

Junior Scientific Aids:

Eunice M. Raps, *lab. asst. in nematol.*

Grace M. Wise, *lab. asst. in nematol.*

Josephine F. Danforth, *lab. asst. in nematol.*

Civella Adams, *lab. asst. in nematol.*

Margaret N. Corder, *lab. asst. in nematol.*

Gertrude L. Power, *lab. asst. in nematol.*

Under Scientific Helper:

Maurice B. Hinman, *lab. and field asst. in nematol., Hdqrs. Falls Church, Va.*

SEED-TESTING LABORATORY

Edgar Brown, Ph. B., *Sr. Bot. in charge.*

Associate Botanist:

F. H. Hillman, M. S., *seed studies.*

Associate Physiologist:

Eben H. Toole, A. M., Ph. D., *physiol. of germination.*

Assistant Botanists:

Willard L. Goss, B. S., LL. B., *seed testing for germination and enforcement of seed importation act.*

Emma F. Sirrine, M. S., *seed-testing supervising.*

Grace M. Cole, A. B., *seed-testing work, Hdqrs. Sacramento, Calif.*

Bertha C. Hite, A. B., *seed-testing work, Hdqrs. Corvallis, Ore.*

Jane C. Kinsella, B. S., *seed-testing work, Hdqrs. Lafayette, Ind.*

Junior Botanists:

Clara Fuhr, M. S., *seed-testing work, Hdqrs. Columbia, Mo.*

Helen H. Henry, *seed-testing work.*

Alma L. Eggleston, B. S., *seed-testing work.*

Regina B. Schulte, A. B., *seed-testing work.*

Helena D. Avery, B. S., *seed-testing work.*

Maxine E. Wilkes, B. S., *seed-testing work.*

Nelle B. Wilkinson, Ph. B., *seed-testing work.*

Junior Physiologist:

Alice M. Andersen, B. M., A. M., *seed physiol. studies.*

OFFICE OF CEREAL INVESTIGATIONS

C. R. Ball, M. S., D. Sc., *Sr. Agron. in charge.*

Senior Pathologists:

H. B. Humphrey, B. S., Ph. D., *cereal rust invest.*

A. G. Johnson, M. S., Ph. D., *cereal disease invest.*

Agronomists:

M. A. McCall, M. S., *cereal production and improvement.*

J. A. Clark, M. S., *western wheat invest.*

H. V. Harlan, M. S., Sc. D., *barley invest.*

Agronomists—Continued.

J. R. Holbert, M. S., *corn root and stalk rot invest., care Funk Bros. Seed Co., Bloomington, Ill.*

C. H. Kyle, B. S., *corn invest.*

C. E. Leighty, B. A., Ph. D., *eastern wheat invest.*

F. D. Richey, B. S., *corn invest.*

T. R. Stanton, M. S., *oat invest.*

D. E. Stephens, B. S., *supt. cereal production and improvement, Sherman Co. Branch Sta., Moro, Ore.*

Pathologists:

J. C. Arthur, M. S., Sc. D., *Agt., leaf rust invest. in coop. with Purdue Univ. Agr. Expt. Sta., Dept. Bot., Expt. Sta., Lafayette, Ind.*

J. G. Dickson, M. S., Ph. D., *Agt., wheat scab invest. in coop. with State Agr. Expt. Sta., Hort. Bldg., Univ., Madison, Wis.*

G. N. Hoffer, A. B., M. S., D. Sc., *corn root and stalk rot invest. in coop. with Purdue Univ. Agr. Expt. Sta., Dept. Bot., Expt. Sta., Lafayette, Ind.*

H. S. Jackson, A. B., *Agt., leaf rust invest. in coop. with Agr. Exp. Sta., Dept. Bot., Agr. Expt. Sta., Lafayette, Ind.*

L. E. Melchers, M. S., *Agt., cereal disease invest. in coop. with State Agr. Expt. Sta., Dept. Bot., Agr. College, Manhattan, Kans.*

E. C. Stakman, M. A., Ph. D., *Agt., stem rust invest. in coop. with State Agr. Expt. Sta., Univ. Farm, St. Paul, Minn.*

W. H. Tisdale, M. S., Ph. D., *cereal smut invest.*

Associate Agronomists:

A. M. Brunson, M. S., Ph. D., *corn breeding invest., Dept. Agron., Agr. Expt. Sta., Manhattan, Kans.*

L. C. Burnett, M. S., *Agt., cereal breeding invest. in coop. with State Agr. Expt. Sta., Dept. Farm Crops, Expt. Sta., Ames, Iowa.*

Chas. E. Chambliss, M. S., *rice invest.*

F. A. Coffman, M. S., *oat invest.*

A. C. Dillman, B. S., *flax invest.*

B. H. Duddleston, M. S., *corn root and stalk rot invest., Dept. Bot., Expt. Sta., Lafayette, Ind.*

V. H. Florell, M. S., *cereal improvement and smut control invest., Univ. Farm, Davis, Calif.*

J. W. Jones, M. S., *Supt., rice field sta., Biggs, Calif.*

J. H. Martin, M. S., *grain sorghum and broomcorn invest.*

M. N. Pope, B. S. Ag., A. M., *barley invest.*

W. J. Sando, M. S., *eastern wheat invest.*

J. B. Sieglinger, M. S., *grain sorghum and broomcorn invest., Woodward Field Sta., Woodward, Okla.*

Associate Agronomists.—Continued.

R. W. Smith, B. S., *cereal production and improvement*, Substation, Dickinson, N. Dak.

L. J. Stadler, B. S., A. M., Ph. D., *Agt., cereal production and improvement in coop. with the State Agr. Expt. Sta.*, Dept. Field Crops, Columbia, Mo.

J. W. Taylor, M. S., *cereal production and improvement*, Arlington Farm, Rosslyn, Va.

Associate Cytologist:

L. F. Randolph, Ph. D., *corn breeding invest.*, Coll. of Agr., Ithaca, N. Y.

Associate Pathologists:

O. S. Aamodt, M. S., *wheat breeding invest.*, Univ. Farm, St. Paul, Minn.

Ruth F. Allen, M. A., Ph. D., *cereal disease invest.*, 122 Hilgard Hall, Berkeley, Calif.

J. W. Baringer, A. B., M. S., *barberry eradication*, Dept. Bot., State Univ., Columbus, Ohio.

G. C. Curran, B. S., *barberry eradication*, Post Office Bldg., Urbana, Ill.

C. W. Hungerford, M. S., Ph. D., *Agt., stripe rust invest. in coop. with State Agr. Expt. Sta.*, Dept. Plant Path., Univ. of Idaho, Moscow, Idaho.

L. D. Hutton, M. S., *barberry eradication*.

F. E. Kempton, M. S., Ph. D., *barberry eradication*.

R. W. Leukel, M. S., *cereal disease invest.*

M. N. Levine, M. S., Ph. D., *stem rust invest.*, Univ. Farm, St. Paul, Minn.

H. H. McKinney, M. S., *wheat rosette and take-all invest.*, Hort. Bldg., Univ., Madison, Wis.

E. B. Mains, A. B., Ph. D., *Agt., leaf rust invest. in coop. with Purdue Univ. Agr. Expt. Sta.*, Dept. Bot., Agr. Expt. Sta., Lafayette, Ind.

G. C. Mayoue, M. S., *barberry eradication*, Dept. Bot., Agricultural College, N. Dak.

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C. S. Reddy, M. S., Ph. D., *cereal bact. invest.*

W. F. Reddy, LL. B., *barberry eradication*, Agr. Coll., East Lansing, Mich.

V. F. Tapke, B. S., *cereal smut invest.*, Dept. Plant Path., Cornell Univ., Ithaca, N. Y.

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N. F. Thompson, M. S., *barberry eradication—chemical means*, State Capitol Annex, Madison, Wis.

J. F. Trost, M. S., *corn root and stalk rot invest.*, Dept. Bot., Expt. Sta., Lafayette, Ind.

Associate Pathologists.—Continued.

R. W. Webb, B. S., M. A., Ph. D., *wheat rosette and take-all invest.*, Hort. Bldg., Univ., Madison, Wis.

Associate Physiologist:

Annie M. Hurd-Karrer, M. S., Ph. D., *invest. of resistance of cereals to diseases*.

Associate Plant Breeders:

E. F. Gaines, M. S., D. Sc., *Agt., cereal improvement in coop. with State Agr. Expt. Sta.*, State Coll. of Agr., Pullman, Wash.

J. H. Parker, M. S., *Agt. cereal breeding and improvement in coop. with State Agr. Expt. Sta.*, Expt. Sta., Manhattan, Kans.

Assistant Agronomists:

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Ernest Dorsey, B. S., Ph. D., *Agr. cereal production and improvement in coop. with Cornell Univ. Agr. Expt. Sta.*, Dept. Plant Breeding, Ithaca, N. Y.

H. S. Garrison, B. S., *corn invest.*

C. P. Hartley, M. S., *corn invest.*

J. M. Jenkins, B. S., *Supt., Rice Expt. Sta.*, Crowley, La.

M. T. Jenkins, B. S., *corn breeding invest.*, Dept. Farm Crops, State Coll., Ames, Iowa.

R. W. May, B. S., *cereal production and improvement*, Judith Basin Substa., Moccasin, Mont.

L. S. Mayer, M. S., *corn improvement*, Agr. Expt. Sta., Knoxville, Tenn.

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G. A. Wiebe, M. S., *cereal production and improvement*, Substa., Aberdeen, Idaho.

J. G. Willier, B. S., M. C. S., A. M., *corn breeding invest.*

Assistant Botanist:

Mary L. Martini, B. S., *barley invest.*

Assistant Pathologists:

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L. E. Compton, B. S., *leaf rust invest.*, Purdue Univ. Agr. Expt. Sta., Lafayette, Ind.

Assistant Pathologists—Continued.

S. M. Dietz, M. S., Ph. D., *oat crown rust invest.*, Agr. Expt. Sta., Ames, Iowa.
 Hurley Fellows, M. S., Ph. D., *wheat rosette and take-all invest.*, Hort. Bldg., Univ., Madison, Wis.

D. G. Fletcher, B. S., *barberry eradication, in coop. with Conf. Prev. Grain Rust*, 300 Lewis Bldg., Minneapolis, Minn.

Marion A. Griffiths, M. S., *cereal smut invest.*

A. W. Henry, M. S., Ph. D., Agent, *stem rust invest., in coop. with Minn. Agr. Expt. Sta.*, Univ. Farm, St. Paul, Minn.

George Janssen, M. S., *wheat scab invest. in coop. with State Agr. Expt. Sta.*, Horticultural Bldg., Univ., Madison, Wis.

Helen Johann, A. M., *wheat scab invest.*, Hort. Bldg., Univ., Madison, Wis.

C. O. Johnston, B. S., *cereal disease invest.*, Agr. Expt. Sta., Manhattan, Kans.

E. B. Lambert, M. S., *stem rust invest.*, Univ. Farm, St. Paul, Minn.

W. E. Leer, M. S., Agent, *barberry eradication*, Coll. of Agr., Purdue Univ., Lafayette, Ind.

E. A. Lungren, M. S., *barberry eradication*, Agr. Coll., Fort Collins, Colo.

J. M. Raeder, M. S., *Agt., stripe rust invest.*, Agr. Expt. Sta., Moscow, Idaho.

G. M. Smith, M. S., *corn root and stalk rot invest.*, Purdue Univ. Agr. Expt. Sta., Lafayette, Ind.

W. A. Walker, B. S., *barberry eradication*, State Capitol Annex, Madison, Wis.

Junior Agronomists:

B. B. Bayles, B. S., *cereal production and improvement*, Agr. Expt. Sta., Moro, Oreg.

R. U. Cotter, M. S., *barberry eradication*, Laramie, Wyo.

M. T. Meyers, M. S., *Agt., corn improvement*, State Univ., Columbus, Ohio.

G. F. Sprague, B. S., *cereal production and improvement*, Substa., North Platte, Nebr.

Junior Pathologists:

J. J. Christensen, M. S., *Agt., stem rust invest.*, Univ. Farm, St. Paul, Minn.

J. H. Craigie, A. B., *Agt., stem rust invest.*, Univ. Farm, St. Paul, Minn.

Helen Hart, B. A., *Agt., stem rust invest.*, Univ. Farm, St. Paul, Minn.

Mary A. Hopkins, B. A., *Agt., barberry eradication*, Post Office Bldg., Urbana, Ill.

E. L. LeClerg, B. S., *Agt., oat crown rust invest.*, Agr. Expt. Sta., Ames, Iowa.

A. G. Lennox, B. S., *Agt., oat crown rust invest.*, Agr. Expt. Sta., Ames, Iowa.

Junior Pathologists—Continued.

W. L. Popham, B. S., *Agt., barberry eradication*, State Coll., Bozeman, Mont.

M. A. Smith, B. S., *Agt., barberry eradication*, Dept. Bot., State Coll., Ames, Iowa.

Junior Plant Breeder:

W. T. Craig, *Agt., cereal production and improvement, in coop. with Cornell Univ. Agr. Expt. Sta.*, Dept. Plant Breeding, Coll. Agr., Ithaca, N. Y.

Senior Scientific Aid:

J. M. Hammerly, *corn invest.*

Scientific Aid:

J. R. Hooker, *western wheat invest.*

Assistant Scientific Aid:

Chester Barlow, *cereal disease invest.*, Hort. Bldg., Univ., Madison, Wis.

Under Scientific Helper:

R. S. Talbott, *cereal disease invest.*

Minor Scientific Helper:

J. P. Bourke, jr., *cereal production and improvement.*

OFFICE OF TOBACCO AND PLANT NUTRITION INVESTIGATIONS

W. W. Garner, A. B., Ph. D., *Sr. Physiol. in charge.*

Agronomist:

E. G. Moss, B. S., *bright flue cured tobacco invest.*, Hdqrs. Oxford, N. C.

Pathologist:

James Johnson, M. S., Ph. D., *Agt., tobacco disease invest.*, Hdqrs. Madison, Wis.

Physiologist:

H. A. Allard, B. S., *physiology of tobacco plant and effect of length of day on plant growth.*

Associate Agronomists:

J. C. Hart, B. S., *bright flue cured tobacco invest.*, Hdqrs. Tifton, Ga.

Otto Olson, *cigar binder and filler tobacco invest.*, Hdqrs. Ephrata, Pa.

Associate Physiologist:

C. W. Bacon, A. M., Ph. D., *biochem. and physiol. studies in plant nutrition.*

Assistant Agronomists:

W. M. Lunn, M. S., *effect of crop plants on other crops.*

W. W. Green, *Agt., Va. sun-cured tobacco invest.*, Hdqrs. Bowling Green, Va.

T. C. McIlvaine, M. S., Ph. D., *Agt., Burley tobacco invest.*, Hdqrs. Maggie, W. Va.

Assistant Biochemist:

J. D. Bowling, B. S., *biochemical invest. of tobacco.*

Assistant Pathologist:

R. C. Thomas, M. S., *Agt., tobacco disease invest.*, Hdqrs. Tifton, Ga.

Assistant Physiologists:

J. E. McMurtrey, jr., B. S., *nutrition of the tobacco plant.*

R. A. Steinberg, B. S., M. A., Ph. D., *effect of light on plant growth.*

Junior Pathologist:

H. F. Murwin, B. S., *Agt., tobacco disease invest.*, Hdqrs. Madison, Wis.

Principal Scientific Aids:

D. E. Brown, *Md. export tobacco invest.*, Hdqrs., Upper Marlboro, Md.

G. W. Harris, *cigar filler tobacco invest.*, Hdqrs. Baldwinsville, N. Y.

Scientific Aids:

A. B. Creed, *effect of length of day on plant growth*, Hdqrs. Arlington Farm, Rosslyn, Va.

J. P. Young, *bright flue cured tobacco invest.*, Hdqrs. Timmons ville, S. C.

OFFICE OF ALKALI AND DROUGHT-RESISTANT PLANT INVESTIGATIONS

T. H. Kearney, LL. D., *Sr. Physiol. in charge.*

Senior Scientific Aid:

George J. Harrison, *Egyptian cotton breeding*, Hdqrs. U. S. Field Sta., Sacaton, Ariz.

Scientific Aid:

Robert H. Peebles, *Egyptian cotton breeding*, Hdqrs. U. S. Field Sta., Sacaton, Ariz.

Assistant Scientific Aid:

Dow D. Porter, *Egyptian cotton breeding*, Hdqrs. U. S. Field Sta., Sacaton, Ariz.

OFFICE OF SUGAR-PLANT INVESTIGATIONS

E. W. Brandes, M. S., Ph. D., *Sr. Path. in charge.*

Pathologists:

R. D. Rands, M. S., Ph. D., *sugar-cane diseases.*

G. H. Coons, A. M., Ph. D., *sugar-beet diseases*, Hdqrs. Rocky Ford, Colo.

Associate Agronomists:

S. B. Nuckols, B. S., A. M., *cultural methods for sugar beets*, 962 South Eighth Street West, Salt Lake City, Utah.

Dean A. Pack, A. B., Ph. D., *sugar-beet seed breeding*, 962 South Eighth West, Salt Lake City, Utah.

Associate Biochemist:

S. F. Sherwood, B. S., *analyses of sugar-producing plants and of sirup therefrom.*

Associate Pathologists:

Ernst Artschwager, B. S., Ph. D., *cytological studies in connection with sugar cane and sugar beet diseases.*

Eubanks, Carsner, B. A., M. S., Ph. D., *curly-top disease of sugar beets*, Citrus Expt. Sta., Riverside, Calif.

Associate Technologists:

P. A. Yoder, A. M., Ph. D., *cultural methods for sugar cane and cane sirup making.*

Assistant Agronomists:

H. B. Cowgill, M. S. A., *variety tests of sorgo and sorgo-sirup making*, P. O. Box 333, Fort Smith, Ark.

J. G. Lill, M. S., *cultural methods of sugar beets*, Mich. Agr. Coll., East Lansing, Mich.

W. W. Tracy, jr., B. S., *sugar-beet seed breeding*, Fort Collins, Colo.

Assistant Cytologist:

Ruth Colvin Starrett, M. A., *cytol. studies in connection with sugar cane and sugar beet diseases.*

Assistant Nematologist:

Gerald Thorne, B. S., *sugar-beet nematode invest.*, 962 South Eighth Street West, Salt Lake City, Utah.

Assistant Pathologists:

P. J. Klaphaak, A. B., M. S., *sugar-cane variety testing in connection with cane diseases.*

G. B. Sartoris, M. S., Ph. D., *sugar-cane diseases.*

Junior Pathologists:

C. F. Lackey, B. S., *curly-top disease of sugar beets*, Citrus Expt. Sta., Riverside, Calif.

Dewey Stewart, M. S., *sugar-beet diseases*, Hdqrs. Rocky Ford, Colo.

Agents:

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C. P. Sheffield, *sugar-cane variety testing in connection with cane diseases*, Canal Point, Fla.

John C. Overpeck, M. S., *cultural methods for sugar beets*, Hdqrs. New Mexico Agr. Expt. Sta., State College, N. Mex.

Charles A. Davis, B. S., *sugar beet seed breeding*, Hdqrs. Mich. Agr. Coll., East Lansing, Mich.

OFFICE OF ECONOMIC AND SYSTEMATIC BOTANY

Frederick V. Coville, A. B., D. Sc., *Sr. Bot. in charge.*

Senior Botanist:

A. S. Hitchcock, A. M., D. Sc., *invest. in agrostology.*

Botanists:

W. E. Safford, Ph. D., *invest. of econ. plants of Mexico; origin, uses, and dissemination of American native plants.*

M. W. Talbot, B. S., *weed invest.*

Associate Botanist:

S. F. Blake, A. M., Ph. D., *invest. in systematic bot.; identification and classification of plants collected by agr. explorers.*

Assistant Botanists:

Agnes Chase, *invest. in agrostology; illustrations of grasses.*

Ivar Tidestrom, Ph. B., *identification of forage plants of the natl. forests.*

Assistant Librarian:

Alice C. Atwood, Ph. B., *bot. reference work and plant bibliographical research.*

Senior Scientific Aid:

Oliver M. Freeman, A. B., *invest. in econ. bot.; care and arrangement of economic herbarium.*

OFFICE OF DRY-LAND AGRICULTURE

E. C. Chilcott, M. S., *Sr. Agr. in charge.*

Agriculturists:

John M. Stephens, B. S., *dry-land agr. invest. and northern group leader, Hdqrs., Mandan, N. Dak.*

Ellery F. Chilcott, B. S., *dry-land agr. invest. and southern group leader, Hdqrs., Woodward, Okla.*

Agronomist:

John S. Cole, B. S., *dry-land agr. invest.; admin.*

Associate Agronomists:

William P. Baird, B. S., *dry land agr. invest., Hdqrs. Mandan, N. Dak.*

Joseph F. Brandon, B. S., *Supt., dry land agr. invest., Hdqrs. Akron, Colo.*

Donald R. Burnham, B. S., *Supt., dry land agr. invest., Hdqrs. Tucumcari, N. Mex.*

Harry J. Clemmer, B. S., *Supt., dry land agr. invest., Hdqrs. Dalhart, Tex.*

Alanson L. Hallsted, B. S., *dry land agr. invest., Hdqrs. Hays, Kans.*

Fred E. Keating, B. S., *Supt., dry land agr. invest., Hdqrs. Big Spring, Tex.*

Floyd L. Kelso, B. S., *Supt., dry land agr. invest., Hdqrs. Ardmore, S. Dak.*

Oscar R. Mathews, M. S., *dry land agr. invest., Hdqrs. Newell, S. Dak.*

Leroy Moomaw, B. S., *Supt., dry land agr. invest., Hdqrs. Dickinson, N. Dak.*

George W. Morgan, B. S., *Supt., dry land agr. invest., Hdqrs. Hayre, Mont.*

August L. Nelson, M. S., *Supt., dry land agr. invest., Hdqrs. Archer, Wyo.*

Walter M. Osborn, B. S., *Supt., dry land agr. invest., Hdqrs. Lawton, Okla.*

Albert Osenbrug, B. S., *Supt., dry land agr. invest., Hdqrs. Moccasin, Mont.*

Johnson T. Sarvis, M. S., *dry land agr. invest., Hdqrs. Mandan, N. Dak.*

Arthur E. Seamans, B. S., *dry land agr. invest., Hdqrs. Huntley, Mont.*

Ray S. Towle, B. S., *Supt., dry land agr. invest., Hdqrs. Sheridan, Wyo.*

Robert Wilson, B. S., *dry land agr. invest., Hdqrs. Mandan, N. Dak.*

Associate Physiologist:

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Assistant Agronomists:

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John C. Thysell, B. S., *dry land agr. invest., Hdqrs. Mandan, N. Dak.*

Junior Agronomist:

Harry E. Weakly, B. S., *dry land agr. invest., Hdqrs. North Platte, Nebr.*

Agents:

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Scientific Aid:

Thomas K. Killand, *dry land agr. invest., Hdqrs. Mandan, N. Dak.*

OFFICE OF WESTERN IRRIGATION AGRICULTURE

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Daniel Hansen, *Farm Supt., Hdqrs. Huntley, Mont.*

H. K. Dean, B. S., *Farm Supt., Hdqrs. Hermiston, Oreg.*

J. A. Holden, B. S., *Farm Supt., Hdqrs. Mitchell, Nebr.*

Beyer Aune, B. S., B. A., *Farm Supt., Hdqrs. Newell, S. Dak.*

E. G. Noble, B. S., *Farm Supt., Hdqrs. Bard, Calif.*

Geo. T. Ratliffe, B. S., *Farm Supt., Hdqrs. San Antonio, Tex.*

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 Anna E. Mix, Phar. D., Jr. *Chem.*

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Soil Analysis:

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G. J. Hough, B. S., *Asst. Chem.*

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William H. Ross, M. S., Ph. D., *Chem., in charge*.

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Arnon L. Mehring, A. B., *Asst. Chem.*

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James B. Martin, A. B., M. S., *Asst. Chem.*

Organic Nitrogen Investigations:

George P. Walton, M. S., *Assoc. Chem., in charge*.

Robert F. Gardiner, M. S., *Asst. Chem.*

Routine Analysis Laboratory:

Frank O. Lundstrom, A. B., *Asst. Chem.*

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 W. E. Tharp, *Asst. Soil Surveyor*.
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FRUIT INSECTS

A. L. Quaintance, M. S., D. Sc., *Assoc. chief of bureau, in charge*.
 A. C. Baker, B. S. A., Ph. D., *Ent.*
 Aime Awl, *Sci. Illustr.*
 Abby Holdridge, *Jr. Sci. Aid.*
 Orchard Insecticides:
 N. E. McIndoo, A. M., Ph. D., *Ent.*
 C. H. Richardson, M. S., Ph. D., *Ent.*
 Robert C. Burdette, M. S., *Jr. Ent.*, Silver Spring, Md.
 Carlo Zeimet, *Asst. Bibl. Ent.*

Apple Insects:

A. J. Ackerman, B. S., *Assoc. Ent.*, in charge field stat., Bentonville, Ark.
 E. H. Siegler, B. S., *Assoc. Ent.*, in charge field stat., Silver Spring, Md.
 Howard Baker, B. S., *Jr. Ent.*, Silver Spring, Md.
 B. A. Porter, B. S., Ph. D., *Assoc. Ent.*, in charge field stat., Vincennes, Ind.
 E. J. Newcomer, A. B., *Assoc. Ent.*, in charge field stat., Yakima, Wash.
 M. A. Yothers, M. S., *Assoc. Ent.*, Yakima, Wash.
 P. W. Mason, M. S., Ph. D., *Asst. Ent.*, aphid studies, Washington, D. C.

Japanese Beetle (laboratory and quarantine headquarters at Riverton, N. J.):

L. B. Smith, B. S., *Ent.*, in charge.
 B. R. Leach, B. S., *Assoc. Ent.*
 J. L. King, M. S., *Assoc. Ent.*
 Henry Fox, B. S., Ph. D., *Assoc. Ent.*
 F. J. Brinley, B. S., *Asst. Ent.*
 E. R. Van Leeuwen, B. S., *Asst. Ent.*

Japanese Beetle—Continued.

Luther Brown, B. S., *Asst. Ent.*
 C. A. Thomas, B. S., *Jr. Ent.*
 J. P. Johnson, B. S., *Jr. Ent.*
 C. W. Stockwell, *Sr. Admin. Asst.*, in charge of quar. and insp.
 W. F. Runyen, B. S., *Sr. Sci. Aid.*
 A. R. Whitcraft, *Sr. Sci. Aid.*
 Curtis P. Clausen, M. S., *Ent.*, in charge Oriental parasite work, Calcutta, India.
 H. A. Jaynes, B. S., *Jr. Ent.*, Shanghai, China.
 T. R. Gardner, B. S., *Jr. Ent.*, Yokohama, Japan.

Grape Insects:

G. A. Runner, *Assoc. Ent.*, in charge field sta., Sandusky, Ohio.

Nut Insects:

F. E. Brooks, *Assoc. Ent.*, in charge field sta., French Creek, W. Va.
 J. B. Gill, B. S., *Assoc. Ent.*, in charge field sta., Thomasville, Ga.
 H. S. Adair, B. S., *Jr. Ent.*, Brownwood, Tex.

Peach Insects:

Alvah Peterson, B. S., M. A., Ph. D., *Ent.*, in charge peach moth investigations, Riverton, N. J.
 O. I. Snapp, B. S., *Assoc. Ent.*, in charge field sta., Fort Valley, Ga.
 C. H. Alden, B. S., *Asst. Ent.*, Fort Valley, Ga.
 H. S. Swingle, M. S., *Jr. Ent.*, Fort Valley, Ga.

Orchard Insect Survey:

R. E. Snodgrass, A. B., *Assoc. Ent.*, in charge insect morphology, Silver Spring, Md.

Economic Scale Insects:

Harold Morrison, A. M., *Assoc. Ent.*, in charge.

Amalia I. Shoemaker, B. S., *Jr. Ent.*

Leola J. Kruger, B. A., *Jr. Ent.*

Camphor Scale:

H. K. Plank, B. S., *Assoc. Ent.*, in charge field sta., New Orleans, La.

T. F. Catchings, B. S., *Jr. Ent.*, New Orleans, La.

A. W. Cressman, B. S., *Jr. Ent.*, New Orleans, La.

Greenhouse Insects:

C. A. Weigel, M. S., Ph. D., *Assoc. Ent.*, in charge.

Bessie M. Broadbent, B. S., *Jr. Ent.*

C. F. Doucette, B. S., *Jr. Ent.*, in charge field sta., Willow Grove, Pa.

Citrus Fruit Insects:

W. W. Yothers, B. S., A. B., *Assoc. Ent.*, in charge field invest., Orlando, Fla.

F. R. Cole, A. M., Ph. D., *Asst. Ent.*, in charge biological work, Orlando, Fla.

O. C. McBride, B. S., M. A., *Jr. Ent.*, Orlando, Fla.

G. F. Moznette, B. S., *Assoc. Ent.*, in charge field sta., Miami, Fla.

Fruit Flies:

H. F. Willard, B. S., *Ent.*, in charge field sta., Honolulu, Hawaii.

Alfred Lutken, B. S., *Jr. Ent.*, Honolulu, Hawaii.

James Zetek, A. B., *Assoc. Ent.*, Ancon, Canal Zone.

Ignacio Molino, LL. D., *Sci. Aid.*, Ancon, Canal Zone.

Citrus Thrips:

E. A. McGregor, B. S., *Assoc. Ent.*, in charge field sta., Lindsay, Calif.

A. C. Mason, M. S., *Asst. Ent.*, Lindsay, Calif.

Enforcement of Insecticide Act:

W. S. Abbott, B. S., *Assoc. Ent.*, in charge field sta., Vienna, Va.

W. M. Davidson, B. S., *Asst. Ent.*, Vienna, Va.

J. J. Culver, B. S., *Asst. Ent.*, Vienna, Va.

CEREAL AND FORAGE INSECTS

W. R. Walton, *Ent.*, acting in charge.

J. S. Wade, *Assoc. Ent.*

Esther H. Hart, *Prin. Sci. Illustr.*

Nettie S. Klopfer, *Under Sci. Helper.*

Tempe, Ariz., Field Station (clover and alfalfa seed chalcis, corn earworm, alfalfa caterpillar, grasshoppers, and plant-lice):

V. L. Wildermuth, B. S., *Assoc. Ent.*, in charge.

E. V. Walter, B. S., *Asst. Ent.*

Tempe, Ariz., Field Station—Continued.

Francis M. Jones, *Under Sci. Helper.*

E. E. Russell, *Asst. Ent.*, Yuma, Ariz.

Sacramento, Calif., Field Station (grasshoppers, Hessian fly, wireworms, and range crane-flies):

C. M. Packard, B. S., *Assoc. Ent.*, in charge.

C. C. Wilson, B. S., *Jr. Ent.*

Lafayette, Ind., Field Station (Hessian fly, sod webworms, lesser clover-leaf weevil, grasshoppers, and chinch bug):

W. H. Larimer, M. S., *Assoc. Ent.*, in charge.

W. B. Noble, B. S., *Jr. Ent.*

H. R. Painter, M. S., *Asst. Ent.*

W. B. Cartwright, B. S., *Asst. Ent.*, Centralia, Ill.

Knoxville, Tenn., Field Station (sod webworms and Hessian fly):

G. G. Ainslie, M. S., *Assoc. Ent.*, in charge.

Sioux City, Iowa, Field Station (pale western cutworm, chinch bug, Hessian fly, and wheat-stem sawfly):

C. N. Ainslie, M. A., *Asst. Ent.*, in charge.

Wichita, Kans., Field Station (Hessian fly, chinch bug, green bug, white grubs, and false wireworms):

J. R. Horton, B. S., *Assoc. Ent.*, in charge.

J. S. Pinkney, B. S., *Jr. Ent.*

H. H. Walkden, B. S., *Jr. Ent.*

F. M. Wadley, B. S., *Jr. Ent.*

Kirkwood, Mo., Field Station (Hessian fly, billbugs, wheat jointworm, strawworms, and chinch bug):

A. F. Satterthwait, *Assoc. Ent.*, in charge.

R. C. Lange, *Asst. Sci. Aid.*

Billings, Mont., Field Station (grasshoppers and crickets):

Stewart Lockwood, A. B., *Assoc. Ent.*, in charge.

R. L. Shotwell, A. B., *Jr. Ent.*

Forest Grove, Oreg., Field Station (clover root-borer, wireworms, Hessian fly, wheat midge, plant-lice, and grasshoppers):

L. P. Rockwood, B. S., *Assoc. Ent.*, in charge.

M. M. Reeher, A. B., *Asst. Ent.*

Sadie E. Keen, A. B., *Jr. Ent.*

M. C. Lane, B. S., *Asst. Ent.*, Toppenish, Wash.

Carlisle, Pa., Field Station (Hessian fly and its parasites):

C. C. Hill, B. S., *Asst. Ent.*, in charge.

H. D. Smith, B. S., *Jr. Ent.*

Columbia, S. C., Field Station (corn earworm, southern corn rootworm, larger corn stalk-borer, and white grubs):

Philip Luginbill, A. M., Ph. D., *Assoc. Ent.*, in charge.

John C. Shiver, B. S., *Jr. Ent.*

San Antonio, Tex., Field Station (sorghum midge, grasshoppers, green bug, and southwestern corn borer) :

C. H. Gable, B. S., *Assoc. Ent.*, in charge.

L. C. Woodruff, A. B., *Jr. Ent.*

W. A. Baker, B. S., *Asst. Ent.*, Dallas, Tex.

Salt Lake City, Utah, Field Station (alfalfa weevil and its parasites) :

G. I. Reeves, A. B., *Assoc. Ent.*, in charge.

T. R. Chamberlin, B. S., *Asst. Ent.*

S. J. Snow, A. B., *Asst. Ent.*

Charlottesville, Va., Field Station (wheat jointworm, corn earworm, and larger corn stalk-borer) :

W. J. Phillips, M. S., *Assoc. Ent.*, in charge.

A. M. Vance, B. S., *Jr. Ent.*

H. G. Burt, B. S., *Jr. Ent.*

European Corn Borer:

D. J. Caffrey, B. S., *Assoc. Ent.*, in charge of research, Arlington, Mass.

D. W. Jones, B. S., *Assoc. Ent.*, Arlington, Mass.

G. W. Barber, B. S., *Asst. Ent.*, Arlington, Mass.

B. E. Hodgson, B. S., *Asst. Ent.*, Arlington, Mass.

W. G. Bradley, B. S., *Asst. Ent.*, Arlington, Mass.

W. D. Whitcomb, B. S., *Asst. Ent.*, Arlington, Mass.

R. C. Ellis, *Jr. Ent.*, Arlington, Mass.

K. W. Babcock, B. S., *Asst. Ent.*, Hyères, Var, France.

H. N. Bartley, B. S., *Asst. Ent.*, in charge field sta., Silver Creek, N. Y.

L. B. Scott, B. S., *Jr. Ent.*, Silver Creek, N. Y.

F. W. Poos, A. M., *Asst. Ent.*, in charge field sta., Sandusky, Ohio.

L. H. Patch, B. S., *Jr. Ent.*, Sandusky, Ohio.

W. R. Thompson, M. S., D. Sc., *Ent.*, in charge parasite field sta., Hyères, Var, France.

H. L. Parker, B. S., D. Sc., *Asst. Ent.*, Hyères, Var, France.

L. H. Worthley, *Administrator in Corn Borer Control*, Arlington, Mass.

R. A. Vickery, A. M., *Asst. Ent.*, Arlington, Mass.

C. W. Lewis, B. S., *Prin. Sci. Aid.*, Arlington, Mass.

G. P. Babson, *Sr. Sci. Aid.*, Arlington, Mass.

T. M. Cannon, *Sci. Aid.*, Arlington, Mass.

F. S. Vidler, *Sci. Aid.*, Arlington, Mass.

E. G. Brewer, *Sr. Admin. Asst.*, in charge field sta., Cleveland, Ohio.

Adonis A. Mathewson, B. S., *Asst. Ent.*, Cleveland, Ohio.

European Corn Borer—Continued.

Curtis Benton, M. S., *Jr. Ent.*, Cleveland, Ohio.

C. O. Larrabee, *Prin. Sci. Aid.*, Cleveland, Ohio.

J. L. W. Enwright, *Sr. Sci. Aid.*, Cleveland, Ohio.

F. L. Fall, *Sr. Sci. Aid.*, Cleveland, Ohio.

C. E. Towle, *Prin. Sci. Aid.*, Elyria, Ohio.

SOUTHERN FIELD-CROP INSECTS

W. D. Hunter, M. S., LL. D., *Sr. Ent.*, in charge, Houston, Tex.

J. L. Webb, M. S., *Assoc. Ent.*, acting in charge, Washington, D. C.

H. B. Bradford, *Chief Sci. Illustr.*

G. L. Garrison, *Sr. Sci. Aid.*

Janet W. Armstrong, *Under Sci. Helper.*

Cotton Insects:

B. R. Coad, B. S., *Ent.*, in charge, Tallulah, La.

J. W. Folsom, Sc. B., Sc. D., *Assoc. Ent.*

F. H. Tucker, *Assoc. Chem.*

G. A. Maloney, *Asst. Ent.*

W. S. Cook, M. A., *Asst. Sci.* (plant morph.).

T. P. Cassidy, B. S., *Asst. Ent.*

F. F. Bondy, B. S., *Asst. Ent.*

M. T. Young, B. S., *Asst. Ent.*

R. C. Gaines, B. S., *Asst. Ent.*

A. J. Chapman, B. S., *Jr. Ent.*

G. L. Smith, B. S., *Jr. Ent.*

V. V. Williams, B. S., *Jr. Ent.*

H. C. Young, B. S., *Jr. Ent.*

W. A. Stevenson, B. S., *Jr. Ent.*

P. A. Glick, A. B., M. S., *Jr. Plant Quar. Insp.*

G. M. Armstrong, M. A., Ph. D., *Agt.*, in charge substa., Florence, S. C.

F. A. Fenton, M. A., Ph. D., *Ent.*, Florence, S. C.

R. W. Moreland, B. S., *Asst. Ent.*, Florence, S. C.

E. W. Dunnam, B. S., *Asst. Ent.*, Florence, S. C.

T. C. Barber, B. S., *Asst. Ent.*, Brownsville, Tex.

Tobacco Insects:

A. C. Morgan, B. S., *Assoc. Ent.*, in charge, Clarksville, Tenn.

S. E. Crumb, B. S., *Assoc. Ent.*

K. B. McKinney, B. S., *Asst. Ent.*

J. U. Gilmore, B. S., *Asst. Ent.*

J. N. Tenhet, B. S., *Jr. Ent.*

F. S. Chamberlin, B. S., *Asst. Ent.*, Quincy, Fla.

Sugarcane and Rice Insects:

T. E. Holloway, B. S., *Assoc. Ent.*, in charge, New Orleans, La.

W. E. Haley, *Prin. Sci. Aid.*

J. W. Ingram, B. S., *Jr. Ent.*, Crowley, La.

FOREST INSECTS

F. C. Craighead, B. A., M. S., Ph. D., *Ent.*,
in charge.

Western Bark-Beetles:

J. M. Miller, B. S., *Ent.*, in charge field
sta., Palo Alto, Calif., and substa.,
Northfork, Calif.

J. C. Evenden, B. S., *Assoc. Ent.*, in
charge field sta., Coeur d'Alene, Idaho.

H. E. Burke, M. S., Ph. D., *Assoc. Ent.*,
Palo Alto, Calif.

W. D. Edmonston, *Assoc. Ent.*, field sta.,
Kanab, Utah.

F. P. Keen, B. S., *Assoc. Ent.*, Palo Alto,
Calif.

H. L. Person, M. S., *Jr. Ent.*, Palo Alto,
Calif.

J. E. Patterson, *Asst. Ent.*, Palo Alto,
Calif., in charge substa., Ashland,
Oreg.

H. J. Rust, *Sr. Sci. Aid*, Coeur d'Alene,
Idaho.

George Hofer, *Sr. Sci. Aid*, Kanab, Utah.

Albert Wagner, *Sr. Sci. Aid*, Palo Alto,
Calif.

E. A. Morrow, *Asst. Sci. Aid*, Palo Alto,
Calif.

W. J. Buckhorn, *Asst. Sci. Aid*, Palo
Alto, Calif.

Forest-Tree Insects:

R. A. St. George, M. S., *Asst. Ent.*, in
charge field sta., East Falls Church,
Va.

S. A. Graham, B. S., M. F., Ph. D., *agt.*,
in charge field sta., St. Paul, Minn.

H. J. MacAloney, M. F., B. S., *Asst. Ent.*,
in charge field sta., Amherst, Mass.

Forest-Product Insects:

T. E. Snyder, B. A., M. F., Ph. D., *Ent.*

Shade-Tree Insects:

William Middleton, B. A., *Asst. Ent.*

Forest Coleoptera:

A. G. Boving, B. Ph., M. S., Ph. D., *Ent.*

TRUCK-CROP INSECTS

J. E. Graf, A. B., *Ent.*, in charge.

W. H. White, B. S., *Assoc. Ent.*

Mary C. Foley, *Asst. Sci. Illustr.*

Truck-Crop Insecticides:

C. H. Popènoe, B. S., *Assoc. Ent.*

Taxonomy of Truck-Crop Insects:

F. H. Chittenden, Sc. D., *Ent.*

Doris H. Blake, A. M., *Jr. Ent.*

Miscellaneous Truck-Crop Insects:

R. E. Campbell, B. S., *Assoc. Ent.*, in
charge field sta., Alhambra, Calif.

J. C. Elmore, B. S., *Jr. Ent.*, Alhambra,
Calif.

C. E. Smith, M. S., *Asst. Ent.*, in charge
field sta., Baton Rouge, La.

Norman Allen, B. S., *Jr. Ent.*, Baton
Rouge, La.

W. A. Thomas, B. S., *Jr. Ent.*, in charge
field sta., Chadbourne, N. C.

W. J. Reid, Jr., B. S., *Jr. Ent.*, Chad-
bourne, N. C.

Miscellaneous Truck-Crop Insects—Con.

D. E. Fink, M. S., Ph. D., *Asst. Ent.*, in
charge field sta., Riverton, N. J.

David Dunavan, B. S., *Agt.*, Toppenish,
Wash.

Sugar-Beet Leafhopper:

Walter Carter, M. S., *Asst. Ent.*, Top-
penish, Wash.

Sweet Potato Weevil Control:

B. L. Boyden, B. S., *Assoc. Ent.*, in
charge field sta., Tampa, Fla.

Wm. H. Merrill, *Sr. Sci. Aid*, Tampa,
Fla.

W. E. Stone, B. S., *Jr. Ent.*, MacLenny,
Fla.

J. W. McGlamery, B. S., *Jr. Ent.*, Mac-
lenny, Fla.

W. M. Prevatt, *Agt.*, MacLenny, Fla.

S. H. Rountree, *Agt.*, Plant City, Fla.

K. L. Cockerham, M. S., *Assoc. Ent.*, in
charge field sta., Biloxi, Miss.

F. A. Wright, B. S., B. A., *Jr. Ent.*, Bay
St. Louis, Miss.

J. A. McLemore, B. S., *Jr. Ent.*, Pica-
yune, Miss.

W. M. Mingee, B. S., *Jr. Ent.*, Picayune,
Miss.

Troy Thompson, B. S., *Jr. Ent.*, Wave-
land, Miss.

S. C. Brummitt, *Sr. Sci. Aid*, in charge
field sta., Silverhill, Ala.

Tomato Weevil:

M. M. High, B. S., *Assoc. Ent.*, in
charge field sta., Gulfport, Miss.

Pea Aphid:

J. E. Dudley, Jr., *Assoc. Ent.*, in charge
field sta., Madison, Wis.

E. M. Searls, *Sr. Sci. Aid*, Madison,
Wis.

T. E. Bronson, *Jr. Sci. Aid*, Madison,
Wis.

Mexican Bean Beetle:

N. F. Howard, M. S., *Assoc. Ent.*, in
charge field sta., Birmingham, Ala.

L. W. Brannon, B. S., *Jr. Ent.*, Bir-
mingham, Ala.

Wallace Coleman, A. B., M. S., *Jr. Ent.*,
Birmingham, Ala.

Rodney Cecil, B. S., *Jr. Ent.*, Geneva,
N. Y.

J. R. Douglass, M. S., *Asst. Ent.*, in
charge field sta., Estancia, N. Mex.

BEE CULTURE

J. I. Hambleton, B. S., *Apicult.*, in charge.

Bee Diseases:

A. P. Sturtevant, A. B., Ph. D., *Assoc.*
Apicult.

Behavior of Bees:

W. J. Nolan, A. M., *Assoc. Apicult.*

Beekeeping Regions:

E. L. Sechrist, B. A., *Assoc. Apicult.*

Physiology of Bees:

G. W. Bulger, M. A., Ph. D., *Asst. Api-
cult.*

STORED-PRODUCT INSECTS

(Including household insects)

E. A. Back, B. S., Ph. D., *Ent.*, in charge.R. T. Cotton, M. S., Ph. D., *Ent.*Sibyl McDonald, *Sci. Illustr.*Marion T. Van Horn, *Jr. Sci. Aid.*

Grain Insects:

Perez Simmons, B. S., *Assoc. Ent.*, in charge field sta., Silver Spring, Md.S. E. McClendon, B. S., *Asst. Ent.*, in charge field sta., Thomasville, Ga.G. W. Ellington, B. S., *Jr. Ent.*, Silver Spring, Md.

Bean Weevils:

A. O. Larson, M. S., *Assoc. Ent.*, in charge field sta., Alhambra, Calif.C. K. Fisher, B. S., *Jr. Ent.*, Alhambra, Calif.

Dried-Fruit Insects:

J. C. Hamlin, M. S., *Assoc. Ent.*, in charge field sta., Fresno, Calif.W. D. Reed, B. S., *Asst. Ent.*, Fresno, Calif.

Fumigation Experiments:

E. A. Vaughan, B. S., *Jr. Ent.*, Silver Spring, Md.

INSECTS AFFECTING THE HEALTH OF MAN AND ANIMALS

(Under immediate direction of the chief of bureau)

W. D. Hunter, M. S., LL. D., *Sr. Ent.*, Houston, Tex.J. L. Webb, M. S., *Assoc. Ent.*

Insects Affecting Health of Animals:

F. C. Bishopp, B. S., *Ent.*, in charge, Dallas, Tex.E. W. Laake, B. S., *Asst. Ent.*H. M. Brundrett, B. S., *Asst. Ent.*W. E. Dove, B. S., *Asst. Ent.*O. G. Babcock, B. S., *Asst. Ent.*, Sonora, Tex.D. C. Parman, B. S., *Asst. Ent.*, Uvalde, Tex.

Malaria Mosquitoes:

W. V. King, B. S., Ph. D., *Assoc. Ent.*, in charge, Mound, La.G. H. Bradley, B. S., *Asst. Ent.*H. E. Wallace, B. S., *Jr. Ent.*T. E. McNeel, B. S., *Jr. Ent.*

GIPSY MOTH AND BROWN-TAIL MOTH

A. F. Burgess, M. S., *Sr. Ent.*, in charge, Melrose Highlands, Mass.S. S. Crossman, B. S., *Ent.*H. B. Dalton, *Admin. Asst.*W. N. Dovener, *Chief Sci. Illustr.*

Field and Laboratory Research:

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Field and Laboratory Research—Continued.

S. M. Dohanian, B. S., M. F., *Asst. Ent.*M. T. Smulyan, B. S., Ph. D., *Asst. Ent.*C. E. Hood, B. S., *Asst. Ent.*D. F. Barnes, B. S., *Asst. Ent.*P. B. Dowden, B. S., *Jr. Ent.*J. C. Silver, B. S., *Jr. Ent.*W. F. Sellers, B. S., *Jr. Ent.*J. V. Schaffner, Jr., *Prin. Sci. Aid.*R. Wooldridge, *Sr. Sci. Aid.*A. W. Young, *Sr. Sci. Aid.*H. I. Winchester, *Sr. Sci. Aid.*J. E. R. Holbrook, *Sr. Sci. Aid.*J. A. Millar, *Sci. Aid.*C. L. Griswold, *Asst. Sci. Aid.*

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 E. A. Schwarz, *Ph. D., Ent.*
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 Wm. Schaus, *M. A., D. Sc., Assoc. Ent.*
 Carl Heinrich, *Assoc. Ent.*
 August Busck, *Assoc. Ent.*

Hymenoptera:

- A. B. Gahan, *M. S., Assoc. Ent.*
 R. A. Cushman, *Assoc. Ent.*
 L. H. Weld, *M. A., Asst. Ent.*

Diptera:

- C. T. Greene, *Asst. Ent.*
 R. C. Shannon, *B. S., Jr. Ent.*

Orthoptera and Neuroptera:

- A. N. Caudell, *M. S., Assoc. Ent.*

Ectoparasites and Mites:

- H. E. Ewing, *M. A., Ph. D., Assoc. Ent.*

BIOCLIMATICS

- A. D. Hopkins, *Ph. D., Sr. Ent., in charge,*
 Mineral Wells, W. Va.
 M. A. Murray, *Asst. Sci. Aid,* Mineral Wells,
 W. Va.

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- G. F. White, *B. S., Ph. D., M. D., Path.,*
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GAME AND BIRD RESERVATIONS

- Smith Riley, *Sr. Admin. Asst., in charge.*
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 Range, Moiese, Mont.
 F. M. Dille, *Warden Niobrara Reserv.,*
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 A. P. Chambers, *Warden Wind Cave*
 Natl. Game Preserve, Hot Springs, S.
 Dak.
 A. P. Nelson, *Warden Elk Refuge, Jack-*
 son, Wyo.
 W. D. Parker, *Warden Sullys Hill Natl.*
 Game Preserve, Fort Totten, N. Dak.
 Bird Refuges:
 D. H. Stevenson, *Warden Aleutian*
 Islands Reserv., Unalaska, Alaska.
 L. L. Bryan, *Warden Big Lake Reserv.,*
 Ark., Hornersville, Mo.
 Ludwig Bethel, *Warden Key West and*
 Tortugas Keys Reserv., Key West, Fla.
 B. J. Pacetti, *Warden Mosquito Inlet*
 Reserv., Ponce Park, Fla.
 Paul Kroegel, *Warden Pelican Island*
 Reserv., Sebastian, Fla.
 Harold P. Bennett, *Warden Tampa Bay*
 Group of Refuges, St. Petersburg, Fla.

Bird Refuges—Continued.

- G. P. Wilder, *Warden Hawaiian Islands*
Reserv., Honolulu, Hawaii.
 C. F. Gleason, *Warden Minidoka Reserv.,*
Rupert, Idaho.
 C. H. Dexter, *Warden Nine Pipe Reserv.,*
Ronan, Mont.¹
 F. C. Mayer, *Warden Pablo Reserv.,*
Pablo, Mont.¹
 M. C. Marvin, *Warden Willow Creek*
Reserv., Great Falls, Mont.²
 W. R. Jones, *Warden North Platte*
Reserv., Minatare, Nebr.¹
 L. E. Foster, *Warden Carlsbad Reserv.,*
Carlsbad, N. Mex.¹
 H. C. Holcomb, *Asst. Warden Carlsbad*
Reserv., Lakewood, N. Mex.¹
 James P. Middleton, *Asst. Warden Carls-*
bad Reserv., Carlsbad, N. Mex.²
 C. L. Grow, *Warden Rio Grande Reserv.,*
Engle, N. Mex.¹
 L. E. Hibbard, *Supvr. Lake Malheur*
Reserv., Burns, Oreg.
 G. M. Benson, *Warden Lake Malheur*
Reserv., Voltage, Oreg.
 G. M. Wilson, *Warden Belle Fourche*
Reserv., Belle Fourche, S. Dak.

¹ Cooperative warden; Reclamation Service employee.

² Employed part of year only.

Bird Refuges—Continued.

- W. L. Whittemore, B. S., *Warden Strawberry Valley Reserv., Provo, Utah.*¹
 C. M. Conger, *Warden Conconully Reserv., Conconully, Wash.*¹
 H. E. Coffin, *Warden Blackbeard Island Reserv., Sapelo, Ga.*²
 Octavius Hopkins, *Asst. Warden Blackbeard Island Reserv., Sapelo, Ga.*²
 C. H. Swearingen, *Asst. Warden Blackbeard Island Reserv., Sapelo, Ga.*²
 John F. Casey, *Asst. Warden Blackbeard Island Reserv., Sapelo, Ga.*²

FOOD HABITS RESEARCH

- W. L. McAtee, M. A., *Biol., in charge.*
 Relation of Native and Introduced Birds and Other Animals to Agriculture:
 E. R. Kalmbach, *Biol.*
 Remington Kellogg, M. A., *Assoc. Biol.*
 J. R. Malloch, A. B., *Assoc. Biol.*
 L. L. Buchanan, A. B., *Asst. Biol.*
 C. C. Sperry, A. B., *Asst. Biol.*
 F. M. Uhler, A. B., *Jr. Biol.*
 Economic Investigations of Migratory Birds:
 E. R. Kalmbach, *Biol.*
 C. C. Sperry, A. B., *Asst. Biol.*
 Quail Investigations (in cooperation with committee representing Quail Study Fund for Georgia and Florida) (Hdqs. Beachton, Ga.):
 H. L. Stoddard, *Field Asst., in charge.*
 C. O. Handley, B. S., *Field Asst.*

FUR RESOURCES

- F. G. Ashbrook, A. B., *Biol., in charge.*
 K. B. Hanson, A. B., D. V. M. *Assoc. Biol., Experimental Fur Farm, Saratoga Springs, N. Y.*

ECONOMIC INVESTIGATIONS

- A. K. Fisher, M. D., *Sr. Biol., in charge.*
 W. B. Bell, M. S., Ph. D., *Biol., Asst. in charge.*
 Lisle Morrison, *Sr. Admin. Asst.*
 Eradication Methods (laboratory, Denver, Colo.):
 S. E. Piper, B. S., *Assoc. Biol., Leader.*
 E. E. Horn, *Asst. Biol.*
 H. E. Williams, *Asst. Biol.*
 F. E. Garlough, A. B., *Assoc. Biol.; Berkeley, Calif.*
 Destruction of Predatory Animals (in cooperation with States):
 J. S. Ligon, *Asst. Admin. Officer; Albuquerque, N. Mex.*
 M. E. Musgrave, *Asst. Admin. Officer, Leader Ariz. dist.; Phoenix.*
 O. L. Coleman, *Sr. Admin. Asst.; Phoenix.*
 C. G. Poole, *Asst. Admin. Officer, Leader Calif. dist.; Sacramento.*

Destruction of Predatory Animals—Con.

- R. K. Stewart, *Sr. Admin. Asst.; Sacramento.*
 S. P. Young, B. S., *Asst. Admin. Officer, Leader Colo. dist.; Denver.*
 J. W. Crook, *Sr. Admin. Asst.; Monte Vista.*
 G. M. Trickle, *Sr. Admin. Asst.; Montrose.*
 L. J. Goldman, *Asst. Admin. Officer, Leader Idaho dist.; Gooding.*
 Samuel Driggs, *Sr. Admin. Asst.; Shoshone.*
 Leo Twitchell, *Admin. Asst.; Dubois.*
 R. E. Bateman, *Asst. Admin. Officer, Leader Mont. dist.; Billings.*
 L. L. Thompson, *Sr. Admin. Asst.; Billings.*
 E. R. Sans, *Asst. Admin. Officer, Leader Nev. dist.; Reno.*
 A. L. Rasmussen, *Sr. Admin. Asst.; Reno.*
 E. F. Pope, *Asst. Admin. Officer, Leader N. Mex. dist.; Albuquerque.*
 E. L. Pineau, *Sr. Admin. Asst.; Albuquerque.*
 W. A. Mullins, *Sr. Admin. Asst.; Albuquerque.*
 S. G. Jewett, *Asst. Admin. Officer, Leader Oreg. dist.; Portland.*
 R. T. Jackson, *Sr. Admin. Asst.; Portland.*
 Elmer Williams, *Sr. Admin. Asst.; Portland.*
 Louis Knowles, *Asst. Admin. Officer, Leader S. Dak. dist.; Rapid City.*
 C. R. Landon, *Asst. Admin. Officer, Leader Tex. dist.; San Antonio.*
 G. E. Holman, *Asst. Admin. Officer, Leader Utah dist.; Salt Lake City.*
 E. Rasmussen, *Sr. Admin. Asst.; Salt Lake City.*
 B. B. Turner, *Sr. Admin. Asst.; Salt Lake City.*
 G. R. Bach, D. V. S., *Asst. Admin. Officer, Leader Wash. dist.; Olympia.*
 H. W. Dobyns, *Sr. Admin. Asst.; Olympia.*
 C. J. Bayer, *Asst. Admin. Officer, Leader Wyo. dist.; Cheyenne.*
 H. P. Williams, *Sr. Admin. Asst.; Sheridan.*
 Destruction of Injurious Rodents (in cooperation with States):
 James Silver, *Asst. Biol., Leader Eastern dist.; Washington, D. C.*
 F. N. Jarvis, *Asst. Biol. Aid; Washington, D. C.*
 M. A. Stewart, B. S., *Jr. Biol.; Ithaca, N. Y.*
 G. C. Oederkirk, B. S. A., *Asst. Biol.; Lafayette.*
 D. A. Gilchrist, *Asst. Biol., Leader Ariz. dist.; Phoenix.*
 B. E. Foster, *Jr. Biol.; Phoenix.*

¹ Cooperative warden; Reclamation Service employee.² Cooperative warden.

Destruction of Injurious Rodents—Con.

- C. E. Reno, *Jr. Biol.*; Phoenix.
 Joseph Keyes, *Asst. Biol., Leader Calif. dist.*; Sacramento.
 H. G. Hansen, *Jr. Biol.*; Sacramento.
 L. L. Laythe, B. S., *Asst. Biol., Leader Colo. dist.*; Denver.
 D. D. Green, B. S., *Jr. Biol.*; Denver.
 W. E. Crouch, B. S. A., *Asst. Biol., Leader Idaho dist.*; Boise.
 T. B. Murray, *Jr. Biol.*; Pocatello.
 Paul Quick, *Asst. Biol. Aid*; Boise.
 A. E. Oman, B. S., M. F., *Asst. Biol., Leader Kans. dist.*; Manhattan.
 Roy Moore, *Asst. Biol. Aid*; Manhattan.
 O. E. Stephil, B. S., *Asst. Biol., Leader Mont. dist.*; Bozeman.
 E. R. Sans, *Asst. Admin. Officer, Leader Nev. dist.*; Reno.
 B. B. Richards, *Asst. Biol.*; Reno.
 A. E. Gray, *Asst. Biol., Leader N. Mex. dist.*; Albuquerque.
 B. J. Melton, *Jr. Biol.*; Albuquerque.
 A. L. Bridenstine, B. S. A., *Jr. Biol.*; Albuquerque.
 J. C. Gatlin, *Asst. Biol. Aid*; Albuquerque.
 I. N. Gabrielson, A. B., *Asst. Biol., Leader Oreg. dist.*; Portland.
 Roy Fugate, *Jr. Biol.*; Portland.
 A. W. Moore, *Jr. Biol.*; Portland.
 H. R. Wells, A. B., *Asst. Biol., Leader S. Dak. dist.*; Rapid City.
 L. C. Whitehead, B. S. A., *Asst. Biol., Leader Tex. dist.*; San Antonio.
 R. S. Zimmerman, *Asst. Biol., Leader Utah dist.*; Salt Lake City.
 L. K. Couch, B. S. A., *Asst. Biol., Leader Wash. dist.*; Olympia.
 John Finley, B. S. A., *Jr. Biol.*; Puyallup.
 A. H. Swain, *Asst. Biol. Aid*; Olympia.
 A. M. Day, B. S., *Asst. Biol., Leader Wyo. dist.*; Laramie.
 G. W. Boyd, B. S., *Jr. Biol.*; Laramie.

BIOLOGICAL INVESTIGATIONS

E. A. Goldman, *Biol., in charge.*

Wild Animal Life:

- E. A. Preble, *Biol.*
 Vernon Bailey, *Biol.*
 A. H. Howell, *Biol.*
 H. H. T. Jackson, M. A., Ph. D., *Biol.*
 H. C. Oberholser, M. S., Ph. D., *Biol.*
 W. P. Taylor, B. S., Ph. D., *Biol.*; Tucson, Ariz.

Migratory Birds:

- H. C. Oberholser, M. S., Ph. D., *Biol.*
 A. H. Howell, *Biol.*
 F. C. Lincoln, *Assoc. Biol.*

Habits of Injurious Animals:

- Vernon Bailey, *Biol.*
 T. H. Scheffer, M. A., *Assoc. Biol.*; Puyallup, Wash.
 W. P. Taylor, B. S., Ph. D., *Biol.*; Tucson, Ariz.

ENFORCEMENT OF MIGRATORY-BIRD TREATY AND LACEY ACTS

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 Talbott Denmead, LL. B., *Deputy Chief U. S. Game Warden.*
 W. R. Dillon, *Sr. Admin. Asst.*
 F. L. Earnshaw, LL. B., *Jr. Admin. Asst.*
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 Wm. L. Birsch, Norfolk, Va.
 Thos. T. Blossom, Locustville, Va.
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 H. S. Swarth, San Francisco, Calif.
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ALASKA INVESTIGATIONS

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 L. J. Palmer, B. S., *Biol., in charge grazing, inv. and Reindeer Exp. Sta.*, Fairbanks.
 W. B. Miller, *Asst. range exam.*, Fairbanks.
 O. J. Murie, *Assoc. Biol.*, Fairbanks.

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 Thomas D. Jensen, *2d Jud. Div.*, Nome.
 Will H. Chase, M. D., *3d Jud. Div.*, Cordova.

Preston S. Whitney, D. D. S., *4th Jud. Div.*, Fairbanks.
 E. P. Walker, *Exec. Officer (chief representative of Biological Survey resident in Alaska)*, Juneau.
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 Capt. K. C. Talmage (master of *Sea Otter*), Juneau.
 H. W. Terhune, Juneau.

Game Wardens—Continued.
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 Frank Dufresne, Holy Cross.
 A. H. Hardy, Anchorage.
 D. H. Stevenson, Unalaska.
 J. W. Warwick, Eagle.
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 L. A. Abbott, S. B., *Assoc. Statis. Engin.*
 A. P. Anderson, B. S. in C. E., *Assoc. Highway Engin.*
 E. R. Barton, Ph. B. in C. E., *Jr. Highway Engin.*
 W. A. Blanchette, B. S. in C. E., *Jr. Highway Engin.*
 A. F. Haelig, B. S. in C. E., *Jr. Highway Engin.*
 T. E. Kesting, B. S. in C. E., *Jr. Highway Engin.*
 F. W. Pierce, jr., B. S. in C. E., *Jr. Highway Engin.*
 R. E. Tribou, B. S. in C. E., *Jr. Highway Engin.*

H. C. Beall, B. E., Jr. *Highway Engin.*
 C. S. Mills, B. S. in E., *Jr. Highway Engin.*
 H. L. Harelson, B. S. in C. E., *Jr. Highway Engin.*
 C. F. Rogers, B. S. in C. E., *Jr. Highway Engin.*
 G. M. French, B. A., *Jr. Highway Econ.*
 C. A. Mourhess, *Assoc. Computer.*

DIVISION OF TESTS

A. T. Goldbeck, B. S., C. E., *Chief.*
 E. B. Smith, M. E., *Engin. of Tests.*
 F. H. Jackson, jr., *Engin. of Tests.*
 H. M. Milburn, B. S. in C. E., *Engin. of Tests.*
 W. J. Emmons, B. S. in C. E., A. M., *Highway Research Spec.*
 A. N. Johnson, B. S. in C. E., *Special Engin. (coop. with Univ. of Md.), College Park, Md.*
 C. A. Hogentogler, B. S. in C. E., *Assoc. Highway Engin.*
 J. T. Pauls, B. C. E., *Assoc. Highway Engin.*
 L. L. Beebe, M. E., *Assoc. Engin. of Tests.*
 I. B. Mullis, B. S. in E., *Assoc. Engin. of Tests.*
 G. E. Ladd, A. M., Ph. D., *Assoc. Econ. Geol.*
 B. A. Anderton, B. S., *Chem. Engin.*
 L. G. Carmick, B. S., *Assoc. Chem.*
 R. H. Lewis, B. S., *Asst. Chem.*

R. I. Rudolph, B. S., *Jr. Chem.*
 B. H. Levenson, B. S., in Ch. E., *Jr. Chem. Engin.*
 E. C. E. Lord, M. S., Ph. D., *Assoc. Petrographer.*
 G. W. Davis, B. S., C. E., *Asst. Engin. Econ.*
 G. P. St. Clair, B. A., *Asst. Engin. of Tests.*
 J. R. Boyd, *Asst. Engin. of Tests.*
 J. A. Buchanan, B. S., in C. E., *Asst. Engin. of Tests.*
 L. W. Teller, B. S., in C. E., *Asst. Engin. of Tests.*
 C. E. Proudley, *Asst. Engin. of Tests.*
 D. O. Wolf, *Jr. Materials Engin.*
 A. C. Benkelmann, B. S., *Asst. Research Spec., La Fayette, Ind.*
 J. H. Eldridge, *Supt. of Road Const.*

DIVISION OF HIGHWAY TRANSPORTATION AND ECONOMICS

J. G. McKay, B. A., Ph. D., *Chief.*
 O. M. Elvehjem, B. A., *Assoc. Highway Econ.*
 L. E. Peabody, B. S., M. A., *Assoc. Highway Econ.*
 J. F. Hehir, A. B., *Asst. Highway Econ.*
 E. T. Stein, B. A., *Asst. Highway Econ.*
 R. D. Lyons, B. A., *Jr. Highway Econ.*

DIVISION OF WAR MATERIALS

J. A. Sourwine, C. E., *Acting Chief.*
 J. M. Marshall, B. S., in C. E., *Assoc. Highway Engin.*

FEDERAL-AID AND FOREST HIGHWAYS

P. St. J. Wilson, C. E., *Chief Engin.*

DIVISION OF DESIGN

E. W. James, A. B., *Chief.*
 A. G. Bruce, B. S., in C. E., *Highway Engin., Asst. to chief.*
 L. G. Bayly, C. E., *Highway Engin.*
 J. H. Stone, C. E., *Highway Engin.*
 F. W. Mills, *Assoc. Highway Engin.*
 R. D. Brown, C. E., *Assoc. Highway Engin.*
 C. V. Johnson, C. E., *Assoc. Highway Engin.*
 M. Kay, *Assoc. Highway Engin.*
 E. P. Shuman, B. S., in C. E., *Assoc. Highway Engin.*
 St. C. T. Thomas, *Assoc. Highway Engin.*
 C. S. Jarvis, C. E., M. S. E., *Assoc. Highway Engin.*
 T. S. Brock, *Assoc. Cartographer.*
 T. L. Ainsworth, *Chief Draftsman, in charge drafting sec.*

DIVISION OF CONSTRUCTION

H. K. Bishop, C. E., *Chief.*
 C. Shoemaker, C. E., *Highway Engin., Asst. to chief.*
 H. G. McKelvey, *Assoc. Highway Engin.*
 F. A. Nickols, *Assoc. Highway, Engin., Office Engin.*

C. R. Whitaker, *Assoc. Highway Engin.*
 C. H. Bacon, B. S., in C. E., *Jr. Highway Engin.*
 E. D. Johnson, B. S., in C. E., *Jr. Highway Engin.*
 W. T. Perkins, B. S., in C. E., *Jr. Highway Engin.*
 A. B. Whedon, *Sr. Engin. Aid.*
 J. J. Roche, *Engin. Draftsman.*
 F. W. Pearce, *Clerk.*

DIVISION OF BRIDGES

O. L. Grover, B. M. E., C. E., *Bridge Engin.*
 J. V. McNary, B. S., in C. E., *Highway Bridge Engin.*
 E. F. Kelley, C. E., *Highway Bridge Engin.*
 C. D. Geisler, C. E., M. S., *Assoc. Highway Bridge Engin.*
 A. L. Gemeny, C. E., *Assoc. Highway Bridge Engin.*
 J. I. Quinn, C. E., *Assoc. Highway Bridge Engin.*
 C. R. Whyte, E. M., *Assoc. Highway Bridge Engin.*

FIELD ORGANIZATIONS FOR HIGHWAY WORK—East

District No. 4—Headquarters, St. Paul, Minn.:

E. O. Hathaway, B. S., in C. E., *Dist. Engin., in charge.*
 A. I. Ostrander, B. S., C. E., *Highway Engin.*
 L. J. Charles, M. E., *Highway Engin.*
 S. R. Sharts, B. S., in C. E., *Highway Engin., Bismarck, N. Dak.*
 S. L. Taylor, C. E., *Highway Engin.*
 W. P. Linton, C. E., *Highway Bridge Engin.*
 A. L. Luedke, C. E., *Assoc. Highway Econ.*
 F. S. Berry, B. S., in C. E., *Assoc. Highway Engin.*
 E. G. Edwards, C. E., *Assoc. Highway Engin.*
 J. A. Glominski, C. E., *Assoc. Highway Engin.*
 R. C. Livingston, B. S., in C. E., *Assoc. Highway Engin.*
 C. T. Nordstrom, B. S., in C. E., *Assoc. Highway Engin.*
 E. G. Raynor, B. S., in C. E., *Assoc. Highway Engin., Pierre, S. Dak.*
 H. J. Taylor, B. S., in C. E., B. S., in M. E., *Assoc. Highway Engin.*
 A. Seifert, C. E., *Assoc. Highway Engin.*
 E. C. Slocumb, C. E., *Assoc. Highway Engin.*

District No. 5 — Headquarters, Omaha, Nebr.:

J. C. Wonders, *Dist. Engin., in charge.*
 W. H. Lynch, C. E., *Highway Engin.*
 G. L. Campen, *Highway Engin.*
 J. R. Chamberlin, *Highway Bridge Engin.*
 H. H. Lotter, C. E., *Highway Engin., Jefferson City, Mo.*

District No. 5—Continued.

- M. L. Mackey, B. E., *Highway Engin.*
 B. F. Taylor, B. S. in C. E., *Highway Engin.*
 A. A. Clausen, B. S. in C. E., *Assoc. Highway Bridge Engin.*
 E. L. Brown, *Assoc. Highway Engin.*
 W. F. Hart, B. S. in C. E., *Assoc. Highway Engin.*
 T. J. Lough, B. S. in C. E., *Assoc. Highway Engin.*, Jefferson City, Mo.
 C. T. McGinley, *Assoc. Highway Engin.*, Jefferson City, Mo.
 D. D. Mickey, B. S. in C. E., *Assoc. Highway Engin.*
 S. W. O'Brien, B. S. in C. E., *Assoc. Highway Engin.*
 T. C. Peterson, B. S. in C. E., *Assoc. Highway Engin.*
 E. B. Rhine, B. S., *Assoc. Highway Engin.*
 E. H. Robinson, C. E., *Assoc. Highway Engin.*, Jefferson City, Mo.
 C. H. Semper, *Assoc. Highway Engin.*
 S. E. Sime, B. S. in C. E., *Assoc. Highway Engin.*
 C. A. Welton, *Assoc. Highway Engin.*
 H. B. Wright, C. E., *Assoc. Highway Engin.*
 C. C. Burdick, B. S. in C. E., *Asst. Highway Engin.*
 L. S. McConnell, *Asst. Highway Engin.*
 G. W. Loomis, B. S. in C. E., *Jr. Highway Engin.*
 R. G. Sturm, B. S. in C. E., *Jr. Structural Engin.*

District No. 6—Headquarters, Ft. Worth, Tex.:

- A. R. Losh, B. S. in M. E., C. E., *Dist. Engin., in charge.*
 J. C. Carpenter, B. C. E., *Highway Engin.*
 P. H. Everett, *Highway Engin.*, Austin, Tex.
 M. J. Cramer, *Highway Engin.*, Baton Rouge, La.
 G. W. Mayo, B. S., *Highway Bridge Engin.*
 A. W. Heyer, B. S. in C. E., *Assoc. Civil Engin.*
 C. T. Nitteberg, B. S. in C. E., *Assoc. Highway Bridge Engin.*
 G. S. Vincent, B. S. in C. E., *Assoc. Highway Bridge Engin.*
 G. Fuller, B. S., *Assoc. Highway Engin.*
 H. S. Gillette, C. E., *Assoc. Highway Engin.*
 F. D. Hudgins, B. S. in C. E., *Assoc. Highway Engin.*, Little Rock, Ark.
 O. B. Kercher, B. S. in C. E., *Assoc. Highway Engin.*
 F. D. Nash, B. S. in C. E., *Assoc. Highway Engin.*, Oklahoma City, Okla.
 F. P. Sexton, B. S., *Assoc. Highway Engin.*
 D. K. Shepard, *Assoc. Highway Engin.*, Austin, Tex.

District No. 6—Continued.

- H. C. Simmins, *Assoc. Highway Engin.*, Little Rock, Ark.
 W. V. Smiley, B. S. in C. E., *Assoc. Highway Engin.*, Oklahoma City, Okla.
 E. U. Stevenson, C. E., *Assoc. Highway Engin.*
 F. T. Stoddard, B. S., *Assoc. Highway Engin.*, Oklahoma City, Okla.
 R. G. Williams, *Assoc. Highway Engin.*, Austin, Tex.
 W. G. Arnold, *Asst. Highway Engin.*, Oklahoma City, Okla.
 L. D. Asmus, C. E., *Asst. Highway Engin.*, Baton Rouge, La.
 C. T. Harrison, *Asst. Highway Engin.*, Austin, Tex.
 H. P. Purington, B. S. in C. E., *Asst. Highway Engin.*
 G. W. Hoffman, B. S. in C. E., *Jr. Highway Engin.*
 L. G. Larson, B. S. in C. E., *Jr. Highway Engin.*
 J. S. Logan, B. S. in C. E., *Jr. Highway Engin.*

District No. 7—Headquarters, Chicago, Ill.:

- J. T. Voshell, A. B., B. S. in C. E., *Dist. Engin., in charge.*
 W. F. Brooks, B. S., *Highway Engin.*
 M. Galbreath, B. S. in C. E., *Highway Engin.*, Frankfort, Ky.
 R. H. Harrison, B. S. in C. E., *Highway Engin.*
 F. M. Johnson, B. S. in C. E., *Highway Engin.*
 J. W. Moore, *Highway Engin.*
 A. V. Helms, B. S. in C. E., *Assoc. Highway Engin.*, Frankfort, Ky.
 W. C. Horton, *Assoc. Highway Engin.*
 F. A. Knight, Ph. B. in C. E., *Assoc. Highway Engin.*
 L. P. Scott, B. S. in C. E., *Assoc. Highway Engin.*
 J. R. Blair, B. S. in C. E., *Asst. Highway Engin.*
 H. J. Bartz, C. E., *Jr. Highway Engin.*

District No. 8—Headquarters, Montgomery, Ala.:

- R. E. Toms, C. E., *Dist. Engin., in charge.*
 C. E. Raynor, C. E., *Highway Engin.*
 F. A. Davis, B. S. in C. E., *Highway Engin.*, Jackson, Miss.
 J. T. Marshall, C. E., *Highway Engin.*, Atlanta, Ga.
 H. J. Morrison, *Highway Engin.*, Gainesville, Fla.
 J. W. Ogier, B. S., *Highway Engin.*
 D. R. Thornton, *Highway Engin.*, Nashville, Tenn.
 V. E. Towles, *Highway Engin.*, Columbia, S. C.
 H. C. Wells, *Highway Engin.*
 C. J. da Silva, B. S. in C. E., *Assoc. Civil Engin.*
 C. D. Snead, C. E., *Highway Bridge Engin.*

District No. 8—Continued.

- J. S. Clark, B. S., C. E., *Highway Bridge Engin.*
 J. M. Angle, B. S. in C. E., *Assoc. Highway Bridge Engin.*
 E. E. Albee, *Assoc. Highway Engin.*, Gainesville, Fla.
 J. H. Ayres, B. S. in C. E., *Assoc. Highway Engin.*, Atlanta, Ga.
 W. F. Brock, B. S., *Assoc. Highway Engin.*, Jackson, Miss.
 E. R. Epperson, *Assoc. Highway Engin.*, Jackson, Miss.
 W. F. King, *Assoc. Highway Engin.*, Atlanta, Ga.
 S. A. Obenshain, B. S. in C. E., *Assoc. Highway Engin.*, Columbia, S. C.
 G. L. Smith, C. E., *Assoc. Highway Engin.*, Nashville, Tenn.
 C. E. Swain, Ph. B., *Assoc. Highway Engin.*
 W. G. White, B. S. in C. E., *Assoc. Highway Engin.*, Nashville, Tenn.
 R. B. Smith, B. C. E., *Asst. Highway Engin.*
 H. C. Headley, *Asst. Highway Engin.*
 B. A. Scott, C. E., *Jr. Highway Engin.*

District No. 9—Headquarters, Troy, N. Y.:

- G. H. Miller, C. E., *Dist. Engin.*, in charge.
 M. J. Adams, *Highway Engin.*
 H. E. Burke, C. E., *Highway Engin.*
 H. D. Fallon, C. E., *Highway Engin.*, Augusta, Me.
 T. M. Keene, B. S. in C. E., *Highway Engin.*, Boston, Mass.
 J. E. Mincher, C. E., *Highway Engin.*, Trenton, N. J.
 C. H. Stillman, M. A., C. E., *Highway Engin.*
 J. A. Whittaker, B. S. in C. E., *Highway Engin.*, Concord, N. H.
 W. J. Anderson, B. S. in C. E., *Assoc. Highway Engin.*
 R. M. Bennett, C. E., *Assoc. Highway Engin.*
 C. F. Bidgood, B. S. in C. E., *Assoc. Highway Engin.*
 L. F. Clark, C. E., *Assoc. Highway Engin.*, Batavia, N. Y.
 R. B. Everts, *Assoc. Highway Engin.*, Montour Falls, N. Y.
 H. J. Hemstreet, C. E., *Assoc. Highway Engin.*
 H. J. McKenney, *Assoc. Highway Engin.*, Providence, R. I.
 T. F. Nichols, *Assoc. Highway Engin.*
 E. F. Ruggles, B. S., *Assoc. Highway Engin.*, Hartford, Conn.
 L. H. Schwartz, *Assoc. Highway Engin.*, Boston, Mass.
 H. M. Smith, C. E., *Assoc. Highway Engin.*
 A. M. Snow, B. S. in C. E., *Assoc. Highway Engin.*, Trenton, N. J.

District No. 9—Continued.

- W. H. Snyder, C. E., *Assoc. Highway Engin.*, Syracuse, N. Y.
 H. Q. Thomas, Ph. B., *Assoc. Highway Engin.*, Augusta, Me.
 E. J. Wakefield, *Assoc. Highway Engin.*
 L. G. Grossman, B. S. in C. E., *Jr. Highway Engin.*
 J. J. Sullivan, B. S. in C. E., *Jr. Structural Engin.*

District No. 10—Headquarters, Washington, D. C.:

- V. M. Peirce, B. S. in C. E., *Dist. Engin.*, in charge.
 Wm. Brewster, B. S., M. E., *Highway Engin.*, Charleston, W. Va.
 C. L. Brown, *Highway Engin.*
 R. F. Eastham, B. S., *Highway Engin.*
 J. D. Fauntleroy, B. S. in C. E., *Highway Engr.*, Richmond, Va.
 B. F. Heidel, A. B., C. E., *Highway Engin.*
 G. T. Macnab, B. S. in C. E., *Highway Engin.*, Raleigh, N. C.
 A. C. Rapelje, *Highway Engin.*, Harrisburg, Pa.
 M. W. Wilbur, *Highway Engin.*, Columbus, Ohio.
 A. F. Gordon, *Highway Bridge Engin.*
 A. E. McClure, C. E., *Assoc. Civil Engin.*
 D. T. Brown, B. S. in C. E., *Assoc. Highway Engin.*, Charleston, W. Va.
 R. L. Devereaux, *Assoc. Highway Engin.*
 A. C. Dunn, C. E., *Assoc. Highway Engin.*, Richmond, Va.
 G. J. Goehl, *Assoc. Highway Engin.*, Columbus, Ohio.
 C. L. Hayward, B. S., *Assoc. Highway Engin.*, Columbus, Ohio.
 A. L. Hooper, C. E., *Assoc. Highway Engin.*, Raleigh, N. C.
 H. R. Leland, *Assoc. Highway Engin.*, Erie, Pa.
 G. D. Ball, B. S. in C. E., *Assoc. Highway Engin.*
 I. W. Hall, *Asst. Highway Engin.*, Columbus, Ohio.
 H. F. Tripp, B. S., *Sr. Highway Draftsman.*

FIELD ORGANIZATIONS FOR HIGHWAY WORK—West

- L. I. Hewes, B. S., Ph. D., *Deputy Chief Engin.*, in charge.
 Regional Office—Headquarters, San Francisco, Calif.:
 J. S. Bright, B. S. in C. E., *Construction Engin.*
 W. N. Frickstad, B. S. in C. E., *Highway Engin.*
 J. W. Ball, C. E., *Highway Engin.*
 F. A. Kittredge, C. E., *Highway Engin.*
 H. R. Angwin, B. S. in C. E., *Highway Bridge Engin.*
 R. Pearson, B. S., *Assoc. Highway Bridge Engin.*

Regional Office—Continued.

- J. Moskowitz, *Assoc. Highway Engin.*
 G. C. White, *Assoc. Highway Engin.*
 K. A. MacLachlan, B. S., *Asst. Highway Econ.*
 C. F. Dixon, *Transitman for Road Surveys.*

District No. 1—Headquarters, Portland, Oreg.:

- C. H. Purcell, B. S., C. E., *Dist. Engin., in charge.*
 M. D. Williams, B. S., *Highway Engin.*
 J. A. Elliott, A. B., R. S., C. E., *Highway Engin.*
 R. B. Wright, B. S. in C. E., *Highway Bridge Engin.*
 L. F. Martin, B. S. in C. E., *Assoc. Highway Bridge Engin.,* Missoula, Mont.
 R. B. McMinn, B. S. in M. E., *Asst. Highway Bridge Engin.*
 F. E. Andrews, *Assoc. Highway Engin.*
 C. Anderson, B. S., *Assoc. Highway Engin.*
 L. J. Caulfield, C. E., *Assoc. Highway Engin.,* Helena, Mont.
 W. J. Scofield, B. C. E., *Assoc. Highway Engin.*
 T. M. Davis, *Assoc. Highway Engin.*
 H. D. Farmer, B. S. in C. E., *Assoc. Highway Engin.*
 E. M. Hulce, *Assoc. Highway Engin.,* Helena, Mont.
 B. F. Kitt, B. S., *Assoc. Highway Engin.,* Missoula, Mont.
 R. E. Merrick, *Assoc. Highway Engin.*
 A. F. Morris, *Assoc. Highway Engin.*
 W. G. Peters, B. S. in C. E., *Assoc. Highway Engin.*
 J. B. Reher, *Assoc. Highway Engin.,* Seward, Alaska.
 A. C. Clark, B. S. in C. E., *Assoc. Highway Engin.,* Missoula, Mont.
 B. F. Beezley, *Asst. Highway Engin.*
 R. T. Bloodsworth, *Asst. Highway Engin.*
 F. H. Cotter, *Asst. Highway Engin.,* Missoula, Mont.
 E. R. Green, *Assoc. Highway Engin.*
 J. M. Myers, *Asst. Highway Engin.*
 C. G. Norris, *Asst. Highway Engin.*
 I. F. Winsor, *Asst. Highway Engin.,* Juneau, Alaska.
 E. E. Avery, *Chief of Road Survey Party.*
 S. Cook, B. S., *Chief of Road Survey Party,* Missoula, Mont.
 Jean Ewen, *Chief of Road Survey Party,* Missoula, Mont.
 W. T. Eddy, *Chief of Road Survey Party.*
 A. V. Emery, *Chief of Road Survey Party.*
 H. H. Kuphal, B. S. in C. E., *Chief of Road Survey Party,* Missoula, Mont.
 N. F. McCoy, B. S., *Chief of Road Survey Party.*
 C. G. Polk, B. S. in C. E., *Chief of Road Survey Party.*

District No. 1—Continued.

- C. Short, B. S. in C. E., *Chief of Road Survey Party.*
 D. W. Lamb, *Transitman for Road Surveys.*
 J. Lissner, A. B., *Transitman for Road Surveys.*
 R. A. Mack, *Transitman for Road Surveys.*
 R. I. Thomas, *Transitman for Road Surveys,* Missoula, Mont.
 J. F. Cameron, C. E., Jr. *Highway Engin.*
 H. A. Stoddart, B. S. in C. E., Jr. *Highway Engin.*
 L. W. Turoff, B. S. in C. E., Jr. *Highway Engin.,* Juneau, Alaska.
 F. R. Carlen, *Highway Draftsman,* Missoula, Mont.
 J. W. Macrum, B. S., *Highway Draftsman.*
 G. H. Waddell, Sr. *Highway Draftsman.*

District No. 2—Headquarters, San Francisco, Calif.:

- C. H. Sweetser, A. B. in C. E., *Dist. Engin., in charge.*
 C. C. Morris, B. C. E., *Highway Engin.*
 E. C. Brown, B. S. in C. E., *Highway Engin.*
 L. R. Brown, C. E., *Highway Engin.*
 G. D. Whittle, B. S. in C. E., *Highway Bridge Engin.*
 A. B. Brown, *Assoc. Highway Engin.*
 J. H. Obermuller, *Assoc. Highway Engin.*
 D. L. MacBeath, *Assoc. Highway Engin.*
 J. T. Schuyler, C. E., *Assoc. Highway Engin.*
 J. L. Mathias, B. S. in C. E., *Assoc. Highway Engin.*
 J. D. Shaw, *Assoc. Highway Engin.*
 H. S. Tolen, B. S., *Assoc. Highway Engin.*
 J. F. Waller, B. S., *Assoc. Highway Engin.*
 F. R. Bonnickson, B. S. in C. E., *Asst. Highway Engin.*
 F. B. Lessman, B. S. in C. E., *Asst. Highway Engin.*
 J. H. Brannan, *Chief of Road Survey Party.*
 C. S. Druning, *Asst. Highway Engin.*
 M. H. Potter, *Chief of Road Survey Party.*
 R. Thirion, B. S. in C. E., *Asst. Highway Engin.*
 J. E. Jensen, B. S. in C. E., *Chief of Road Survey Party.*
 M. W. Moody, B. S. in C. E., Jr. *Highway Engin.*
 W. J. Ward, B. S. in C. E., Jr. *Highway Engin.*
 L. C. Huffer, C. P. A., *Highway Draftsman.*
 G. W. Miller, *Highway Draftsman.*
 F. L. Philbrook, *Highway Draftsman.*
 A. Thain, B. S. in C. E., *Highway Draftsman.*
 Ellen DeV. Butler, Jr. *Highway Draftsman.*

District No. 3—Headquarters, Denver, Colo.:

J. W. Johnson, M. E., *Dist. Engin., in charge.*
 A. E. Palen, B. S. in C. E., *Highway Engin.*
 A. V. Williamson, *Highway Engin.*
 L. F. Copeland, B. S. in C. E., *Highway Bridge Engin.*
 R. S. Corlew, *Assoc. Highway Engin.*
 C. C. Learned, B. S., *Assoc. Highway Engin.*
 W. H. Curwen, B. S. in C. E., *Assoc. Highway Engin.*
 L. A. Hamilton, *Assoc. Highway Engin.*
 B. B. Hauser, B. C. E., *Assoc. Highway Engin.*
 W. M. Jeffrey, B. S. in C. E., *Assoc. Highway Engin.*
 C. P. Capes, *Assoc. Highway Engin.*
 E. C. White, B. S. in C. E., *Assoc. Highway Bridge Engin.*
 P. C. Carson, *Asst. Highway Engin.*
 J. G. Rose, B. S. in C. E., *Asst. Highway Engin.*
 J. D. Slye, C. E., *Asst. Highway Engin.*
 J. E. Williams, B. S. in C. E., *Asst. Highway Engin.*
 P. A. Bean, B. S. in C. E., *Chief of Road Survey Party.*
 M. C. Bowman, *Chief of Road Survey Party.*
 S. J. Caperton, *Chief of Road Survey Party.*
 G. F. Hellesoe, *Chief of Road Survey Party.*
 F. C. Hill, *Chief of Road Survey Party.*
 W. J. Keller, *Chief of Road Survey Party.*
 W. L. Lafferty, *Chief of Road Survey Party.*
 S. A. Wallace, *Chief of Road Survey Party.*
 R. W. Darling, *Transitman for Road Surveys.*
 O. E. Gardner, B. S. in C. E., *Jr. Highway Bridge Engin.*
 H. C. Richardson, B. S. in C. E., *Jr. Highway Engin.*
 R. E. Anderson, *Highway Draftsman.*
 R. H. Naylor, *Highway Draftsman.*
 Dorothea W. Greenlee, *Jr. Draftsman.*

District No. 12—Headquarters, Ogden, Utah:

B. J. Finch, C. E., *Dist. Engin., in charge.*
 E. E. Kidder, B. S. in C. E., *Highway Engin.*
 B. W. Matteson, B. S., *Highway Engin.*
 L. M. Huggins, B. S. in C. E., *Assoc. Highway Bridge Engin.*
 O. C. Lockhart, *Asst. Highway Bridge Engin.*
 R. A. Brown, *Assoc. Highway Engin.*
 C. W. Cross, B. S. in C. E., *Assoc. Highway Engin.*
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